“Cell Disruption” TECHNOLOGY ANALYSIS *IN THE COSMETIC CATEGORY*

“Cell Disrupted” *Spirulina technology analysis*

The uniqueness of “Cell Disrupted“ spirulina elements, is the technology, which allows fragmentation of the cell. “Cell Disrupted” technology enables to extract and use all components of spirulina not damaging those active mate rials which are in the cells. As the membrane of spirulina is fragmented neither mechanically nor chemically all the elements that are there are prepared to their further effective use.

Manufacturing “Cell Disrupted” products modern scientific approach is applied paying attention to special needs of the market. The ingredients are of the highest quality GMP and ISO standards are observed in all stages of manufacturing, GMO are not used.

To evaluate the effects of the “Cell Disrupted” spirulina cosmetics product was chosen Antera 3D facial skin test. Thanks to this study, the skin change parameters for a group of subjects using a daily use cosmetic product are presented with a detailed analysis of changes throughout the study.

Skin Analysis
As It Should Be

The study was carried out with facial skin photography using Miravex Limited features Antera 3D. It is a powerful and versatile data handling and consultation tool for the analysis and measurement of:

- ✓ Wrinkles;
- ✓ Texture;
- ✓ Pigmentation;
- ✓ Redness.

This is real 3D imaging with high measurement precision, standardized lighting conditions, versatility of measurements and powerful data analysis.

This study aims to substantiate the effectiveness and benefits of cosmetic products from ”Cell Disrupted” spirulina.

Automatic matching

Automatic Matching is a proprietary algorithm that precisely matches the selection on the Baseline image across all Follow-up images. Combined with the Real time registry of images, it makes image acquisition and analysis exact.

https://miravex.com/antera-3d/

Evaluation the therapeutic efficacy of “Cell Disrupted” spirulina technology to improve skin conditions

Objective: To determine the effect on the skin of the manufactured product - 1% spirulina extract made with “Cell Disrupted” technology. Product is designed for daily use. The following changes have been selected: wrinkles, texture (pores); pigmentation (melanin); redness (haemoglobin).

Methods: Study group is total of 15 persons age category from 16 age to 67 age. Investigation progress was two times interval: after first control photography passed two week and second after three weeks from second control photography. A total of sessions during intervals were conducted to each patient. Subjects used spirulina mist once daily in the evening.

Results: The Antera scores for wrinkle after 3 sessions were decreased level ± 25%. The Antera scores for pores after 3 sessions were decreased level ± 32%. The Antera scores for melanin levels after 3 sessions were decreased level ± 2,5%, variation ± 7,1%. The Antera scores for haemoglobin levels after 3 sessions were decreased level ± 3,9 %; variation ± 11 %;

Conclusions: The study proved that the “Cell disrupted” spirulina mist product improves all skin parameters recorded in the study.

Age and gender of the research subject

gabija 16 2022-10-28.an-img 10/28/2022 19:41

Gailė 36 2022-10-28.an-img 10/28/2022 17:34

Inga 47 2022-10-28.an-img 10/28/2022 16:45

Jurgita 44 2022-9-23.an-img 9/23/2022 13:40

ausra 53 2022-9-23.an-img 9/23/2022 16:09

Agata 24 2022-10-7.an-img 10/7/2022 19:31

egle 45 2022-10-28.an-img 10/28/2022 19:10

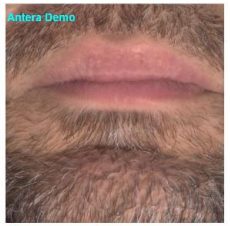
Egle 39 2022-10-28.an-img 10/28/2022 18:13

Justina 40 2022-9-23.an-img 9/23/2022 12:48

Kristina 36 2022-10-7.an-img 10/7/2022 15:58

Lukrecija 18 2022-9-23.an-img 9/23/2022 17:58

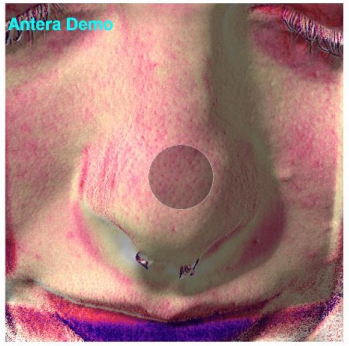
Marius 38 2022-10-7.an-img 10/7/2022 17:20

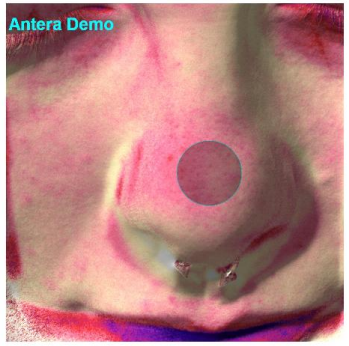

Paulius 40 2022-9-23.an-img 9/23/2022 13:12

Tomas 33 2022-9-23.an-img 9/23/2022 19:21

Valentina 67 2022-9-23.an-img 9/23/2022 17:11

Haemoglobin average level and variation





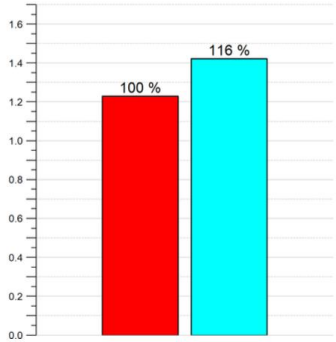
● **m24 n 2022-9-23.an-img** **9/23/2022 15:44**

- Average level = 1.229
- Variation = 0.0896

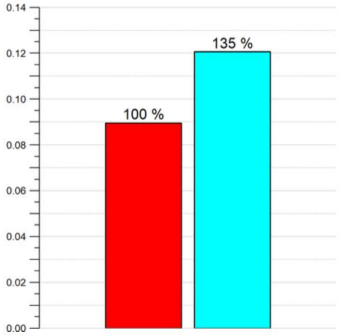
● **m24 n 2022-10-7.an-img** **10/7/2022 19:30**

- Average level = 1.422
- Variation = 0.121

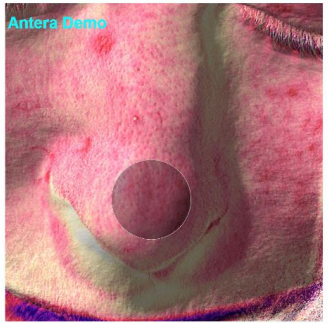
Haemoglobin average level

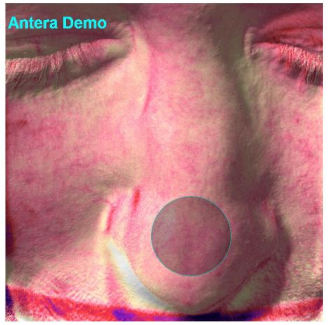


Haemoglobin variation



Circular selection:
area = 89.7 mm²
diameter = 10.7 mm





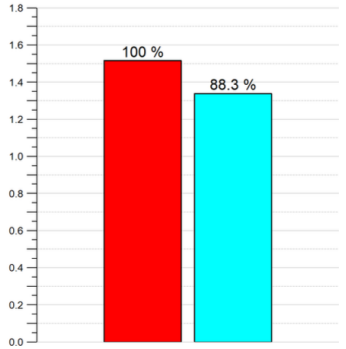
● **m53 n 2022-9-23.an-img** **9/23/2022 16:07**

- Average level = 1.516
- Variation = 0.118

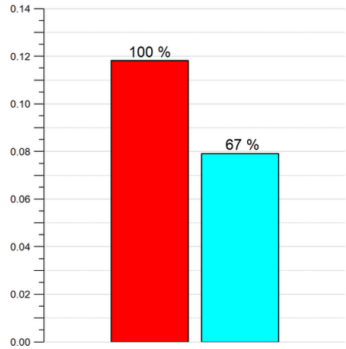
● **m53 n 2022-10-7.an-img** **10/7/2022 19:07**

- Average level = 1.339
- Variation = 0.0792

Haemoglobin average level

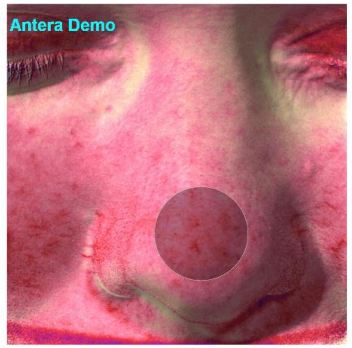


Haemoglobin variation



Circular selection:
area = 152.9 mm²
diameter = 14.0 mm

Haemoglobin average level and variation



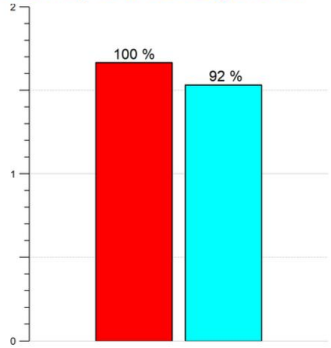
● m45 n 2022-9-23.an-img 9/23/2022 17:34

- Average level = 1.666
- Variation = 0.101

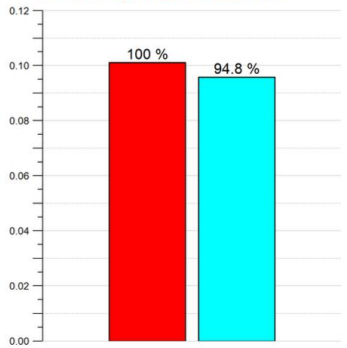
● m45 n 2022-10-7.an-img 10/7/2022 16:53

- Average level = 1.533
- Variation = 0.0957

Haemoglobin average level



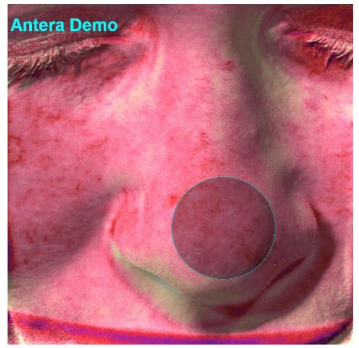
Haemoglobin variation



Circular selection:
area = 185.2 mm²
diameter = 15.4 mm

● m39 n 2022-9-23.an-img 9/23/2022 18:13

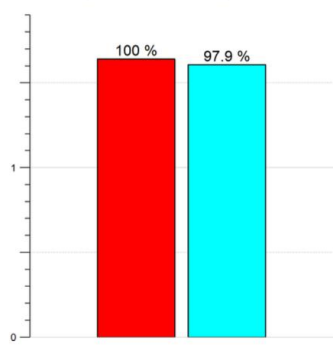
- Average level = 1.641
- Variation = 0.156



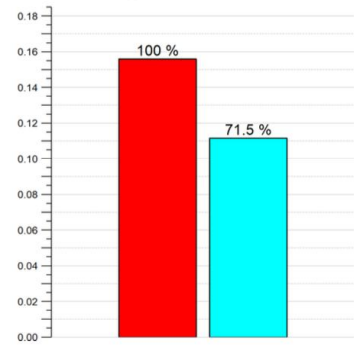
● m39 n 2022-10-28.an-img 10/28/2022 18:12

- Average level = 1.607
- Variation = 0.112

Haemoglobin average level

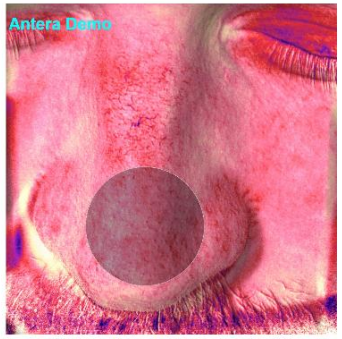


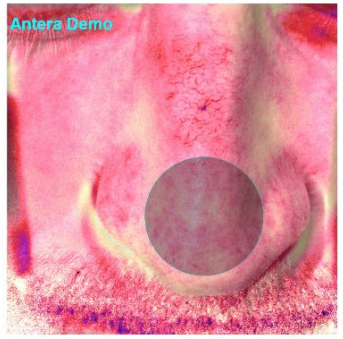
Haemoglobin variation



Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

Haemoglobin average level and variation



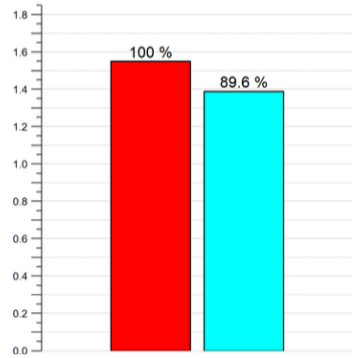


● v33 n 2022-9-23.an-img 9/23/2022 19:20 ● v33 n 2022-10-28.an-img 10/28/2022 17:52

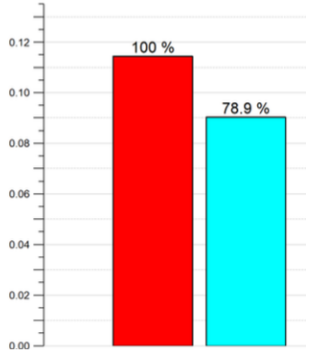
- Average level = 1.550
- Variation = 0.114

- Average level = 1.389
- Variation = 0.0903

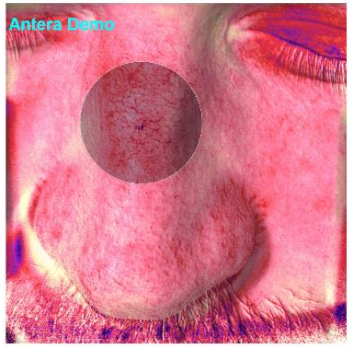
Haemoglobin average level

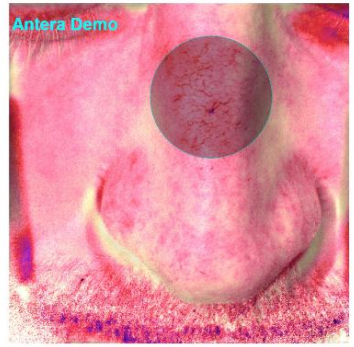


Haemoglobin variation



Circular selection:
area = 314.8 mm²
diameter = 20.1 mm



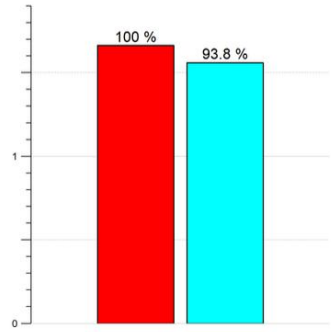


● v33 n 2022-9-23.an-img 9/23/2022 19:20 ● v33 n 2022-10-28.an-img 10/28/2022 17:52

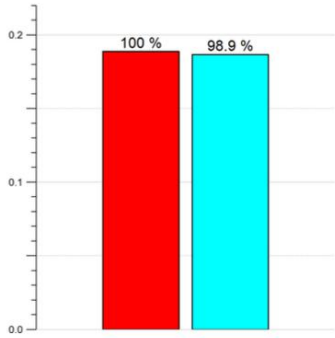
- Average level = 1.664
- Variation = 0.189

- Average level = 1.561
- Variation = 0.187

Haemoglobin average level

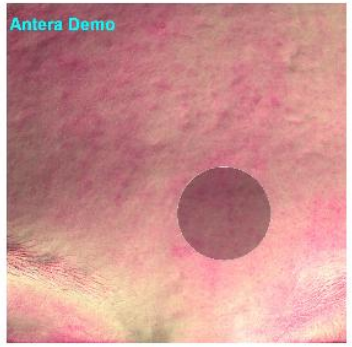


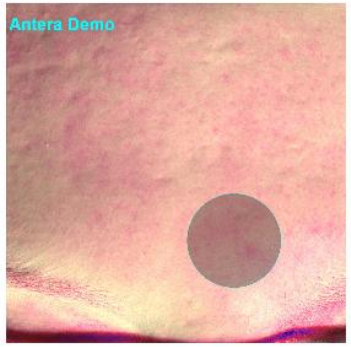
Haemoglobin variation



Circular selection:
area = 314.9 mm²
diameter = 20.1 mm

Haemoglobin average level and variation





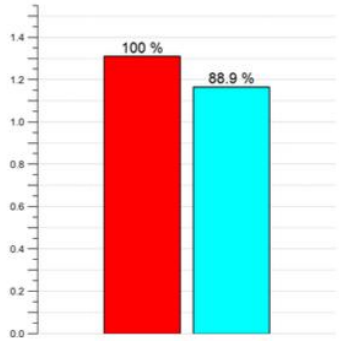
● **m18 kc 2022-9-23.an-img** **9/23/2022 17:56**

- Average level = 1.311
- Variation = 0.068

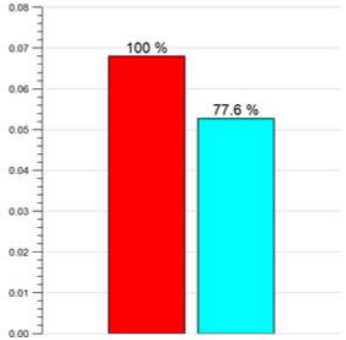
● **m18 kc 2022-10-28.an-img** **10/28/2022 19:24**

- Average level = 1.166
- Variation = 0.0528

Haemoglobin average level



Haemoglobin variation



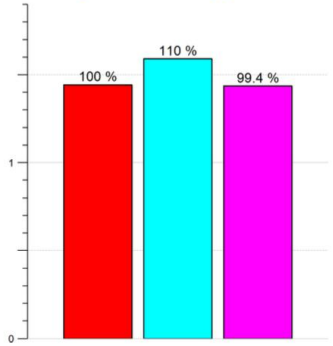
Circular selection:
area = 185.2 mm²
diameter = 15.4 mm

Haemoglobin average level and variation

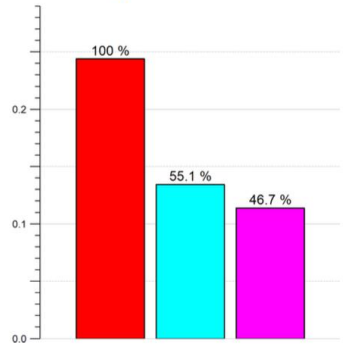
● m 16 n 2022-10-28.an-img 10/28/2022 19:35

- Average level = 1.436
- Variation = 0.114

Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 265.6 mm²
diameter = 18.4 mm

● m 16 n 2022-9-23.an-img 9/23/2022 17:20

- Average level = 1.444
- Variation = 0.244

● m 16 n 2022-10-7.an-img 10/7/2022 18:45

- Average level = 1.591
- Variation = 0.135

Haemoglobin average level and variation

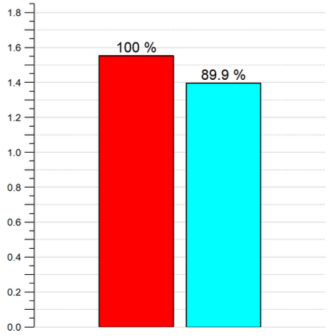
● m36 n 2022-9-23.an-img 9/23/2022 17:48

- Average level = 1.553
- Variation = 0.0846

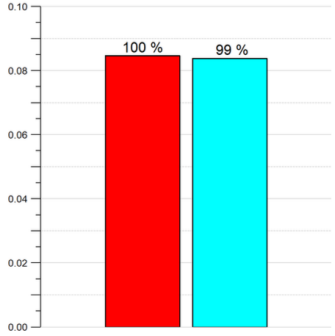
● m36 n 2022-10-28.an-img 10/28/2022 17:3

- Average level = 1.396
- Variation = 0.0838

Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

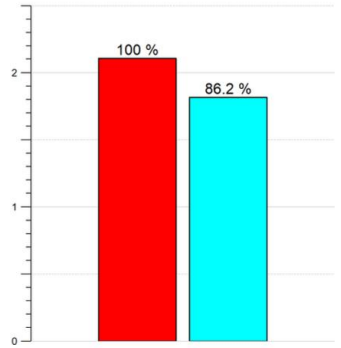
● m47 n 2022-9-23.an-img 9/23/2022 16:48

- Average level = 2.106
- Variation = 0.192

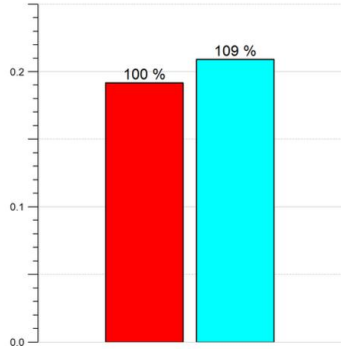
● m47 n 2022-10-7.an-img 10/7/2022 16:30

- Average level = 1.816
- Variation = 0.209

Haemoglobin average level



Haemoglobin variation



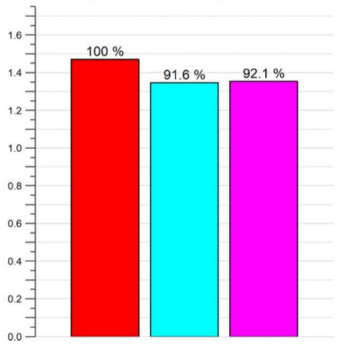
Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

Haemoglobin average level and variation

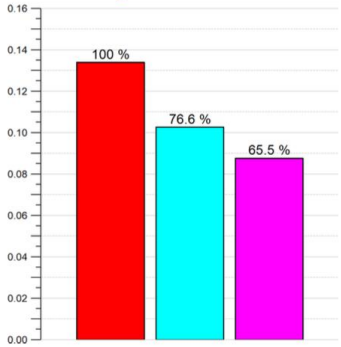
● **m40 n 2022-10-28.an-img 10/28/2022 16:25**

- Average level = 1.354
- Variation = 0.0877

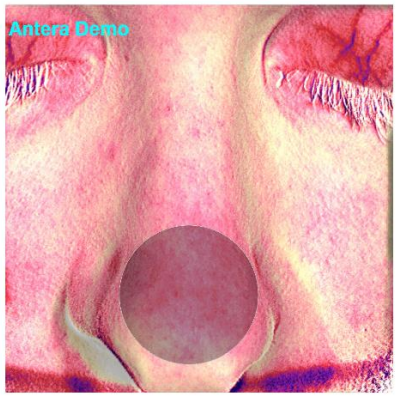
Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 314.8 mm²
diameter = 20.1 mm



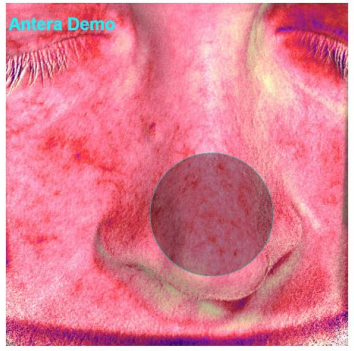
● **m40 n 2022-9-23 12.47.57.an-img 9/23/2022 12:47**

- Average level = 1.471
- Variation = 0.134

● **m40 n 2022-10-7.an-img 10/7/2022 18:57**

- Average level = 1.347
- Variation = 0.103

Haemoglobin average level and variation

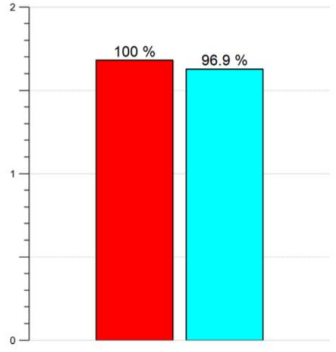


● **m44 n 2022-9-23.an-img** **9/23/2022 13:39** ● **m44 n 2022-10-7.an-img** **10/7/2022 18:22**

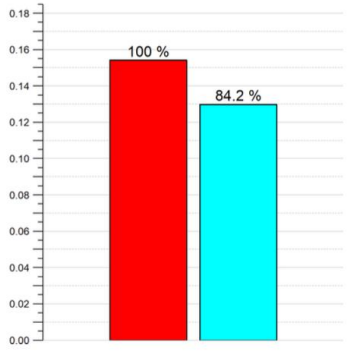
- Average level = 1.681
- Variation = 0.154

- Average level = 1.628
- Variation = 0.13

Haemoglobin average level



Haemoglobin variation



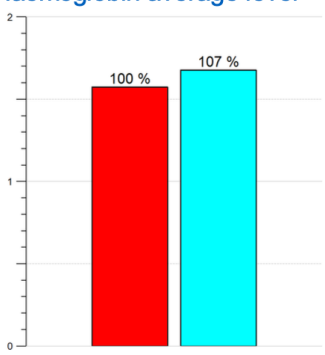
Circular selection:
area = 314.9 mm²
diameter = 20.1 mm

● **m36 n 2022-9-23.an-img** **9/23/2022 12:07** ● **m36 n 2022-10-7.an-img** **10/7/2022 16:01**

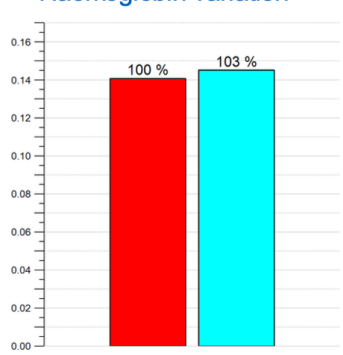
- Average level = 1.574
- Variation = 0.141

- Average level = 1.677
- Variation = 0.145

Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 185.1 mm²
diameter = 15.4 mm

Haemoglobin average level and variation

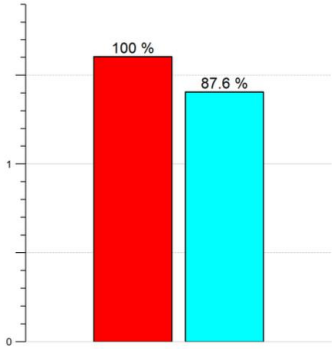
● m18 n 2022-9-23.an-img 9/23/2022 17:58

- Average level = 1.604
- Variation = 0.16

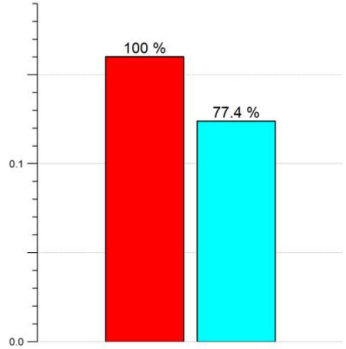
● m18 n 2022-10-28.an-img 10/28/2022 19:22

- Average level = 1.405
- Variation = 0.124

Haemoglobin average level



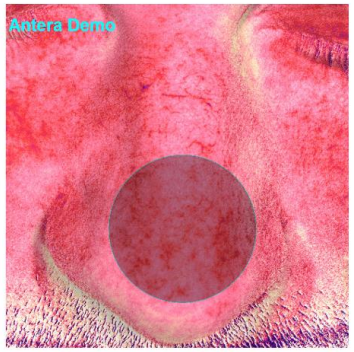
Haemoglobin variation



Circular selection:
area = 376.3 mm²
diameter = 21.9 mm

● v38 n 2022-9-23.an-img 9/23/2022 15:26

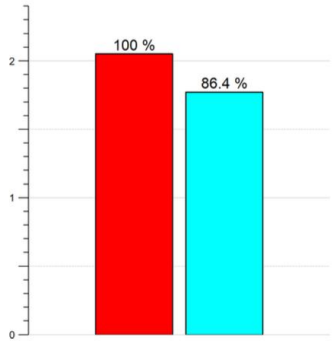
- Average level = 2.052
- Variation = 0.182



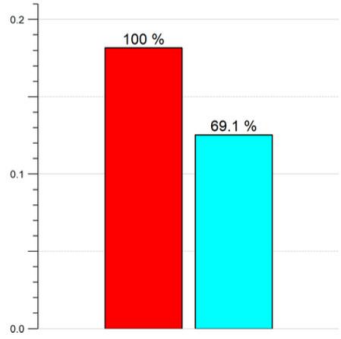
● v38 n 2022-10-7.an-img 10/7/2022 17:19

- Average level = 1.773
- Variation = 0.125

Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 452.0 mm²
diameter = 24.0 mm

Haemoglobin average level and variation

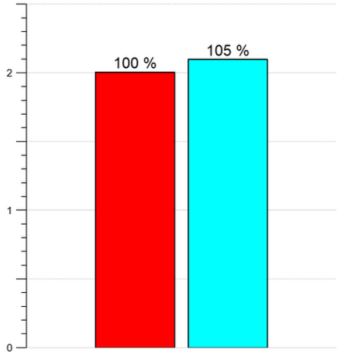
● v40 n 2022-9-23.an-img 9/23/2022 13:10

- Average level = 2.006
- Variation = 0.223

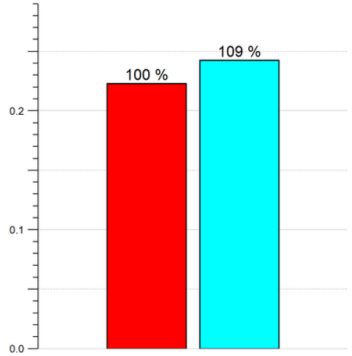
● v40 n 2022-10-7.an-img 10/7/2022 17:50

- Average level = 2.099
- Variation = 0.242

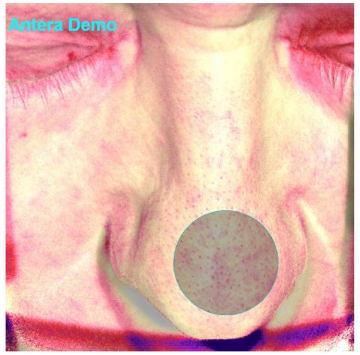
Haemoglobin average level



Haemoglobin variation



Circular selection:
area = 452.0 mm²
diameter = 24.0 mm



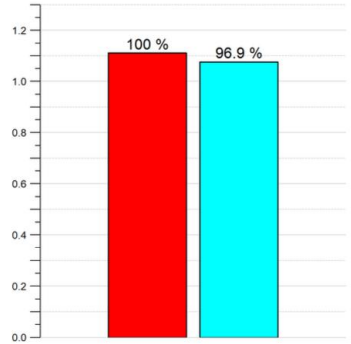
● m67 n 2022-9-23.an-img 9/23/2022 17:10

- Average level = 1.111
- Variation = 0.0843

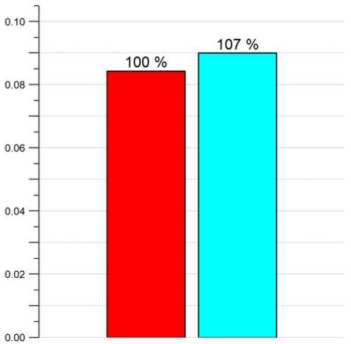
● m67 n 2022-10-28.an-img 10/28/2022 17:01

- Average level = 1.076
- Variation = 0.09

Haemoglobin average level



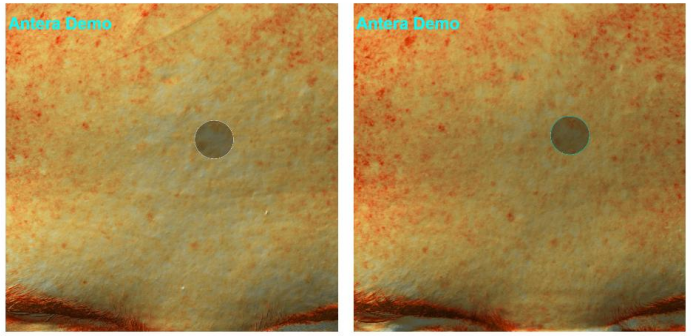
Haemoglobin variation



Circular selection:
area = 220.3 mm²
diameter = 16.8 mm

Melanin average level and variation

Melanin

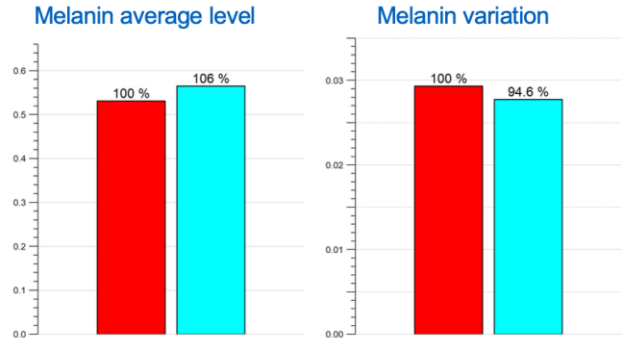


● **m39 kc 9/23/2022**

- Average level = 0.531
- Variation = 0.0293

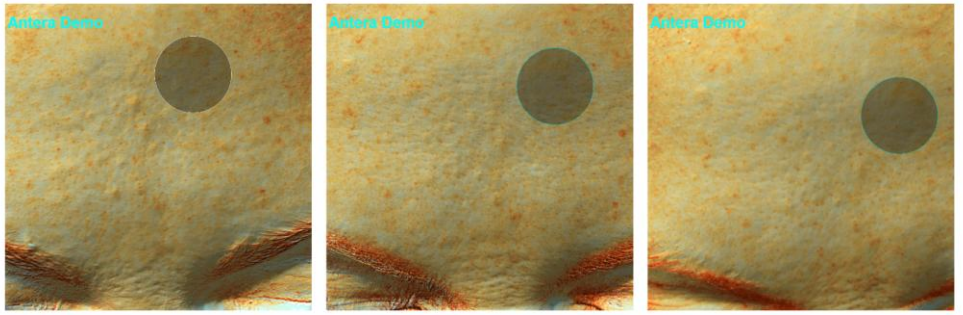
● **m39 kc 10/28/2022**

- Average level = 0.565
- Variation = 0.0277



Circular selection:
area = 33.1 mm²
diameter = 6.5 mm

Melanin



● **m47 kc 9/23/2022**

- Average level = 0.529
- Variation = 0.0279

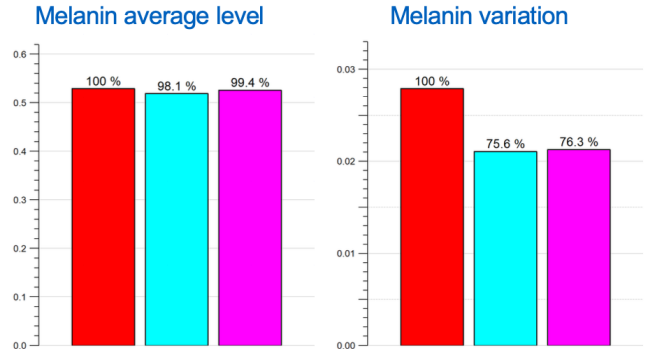
47

● **m47 kc 10/7/2022**

- Average level = 0.519
- Variation = 0.0211

● **m47 kc 10/28/2022**

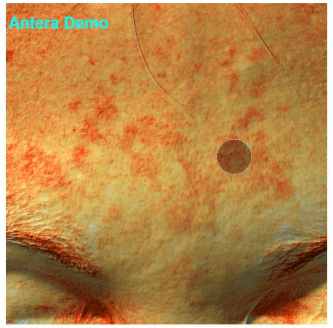
- Average level = 0.526
- Variation = 0.0213

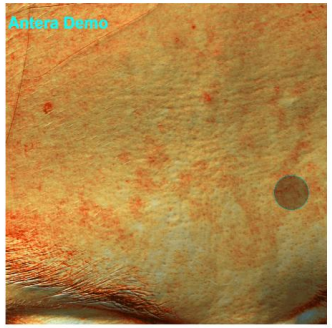


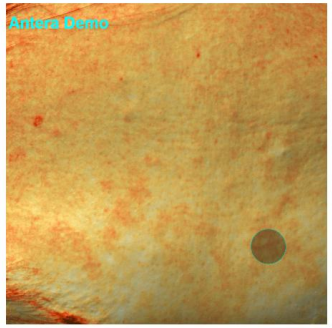
Circular selection:
area = 152.9 mm²
diameter = 14.0 mm

Melanin average level and variation

Melanin







● **m40 kc 9/23/2022**

- Average level = 0.672
- Variation = 0.0311

40

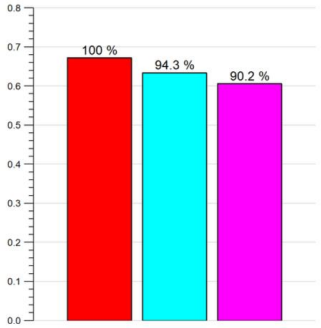
● **m40 kc 10/7/2022**

- Average level = 0.634
- Variation = 0.0282

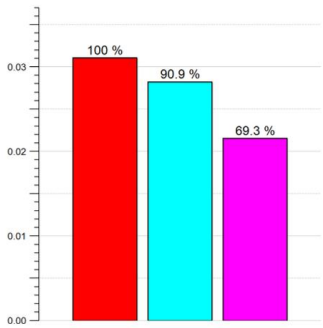
● **m40 kc 10/28/2022**

- Average level = 0.606
- Variation = 0.0215

Melanin average level

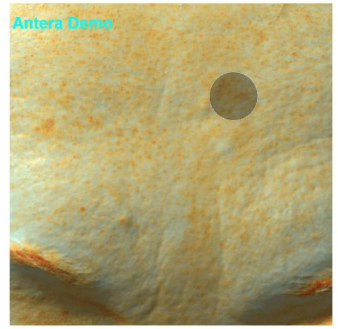


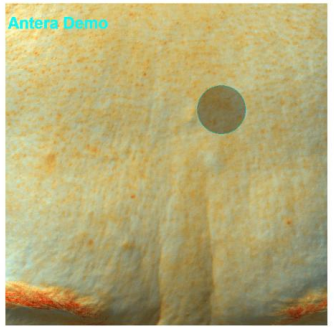
Melanin variation



Circular selection:
area = 28.4 mm²
diameter = 6.1 mm

Melanin





● **m53 kc 9/23/2022**

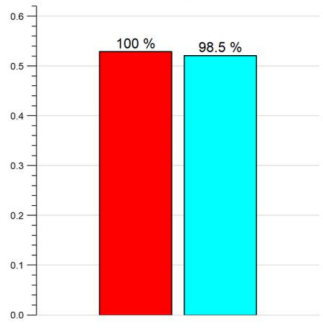
- Average level = 0.529
- Variation = 0.0298

53

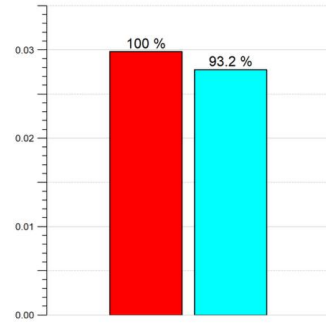
● **m53 kc 10/7/2022**

- Average level = 0.521
- Variation = 0.0278

Melanin average level



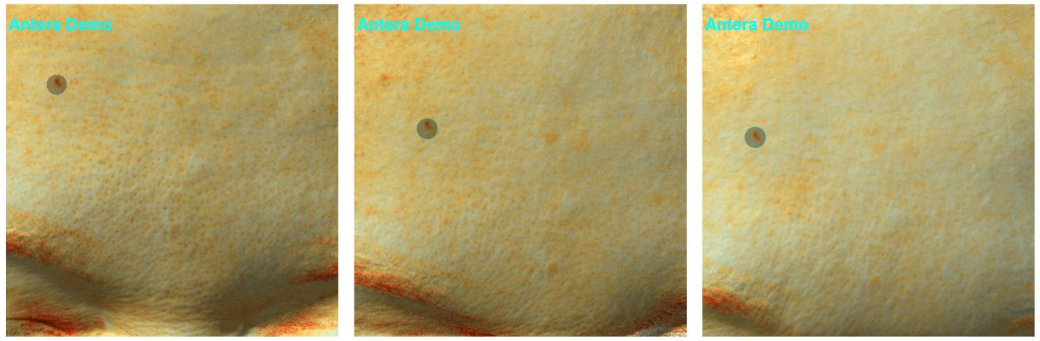
Melanin variation



Circular selection:
area = 54.7 mm²
diameter = 8.4 mm

Melanin average level and variation

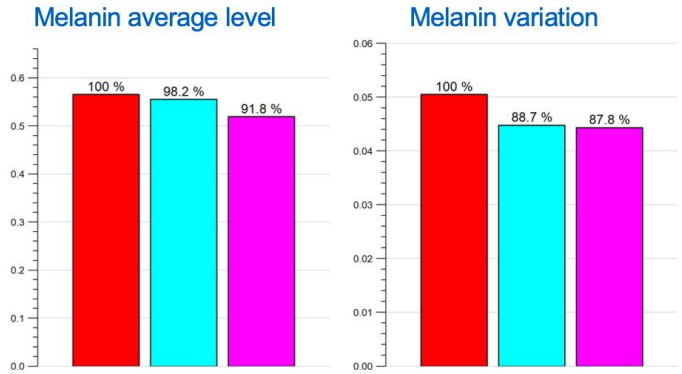
Melanin



● **m45 kc 9/23/2022**
- Average level = 0.566
- Variation = 0.0505

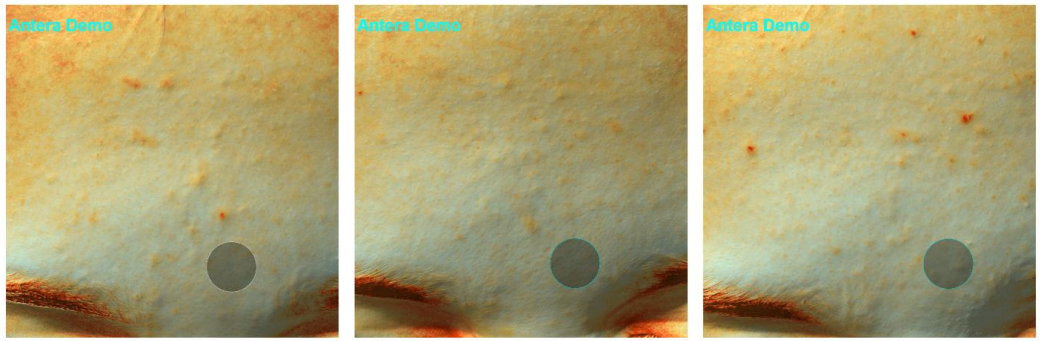
● **m45 kc 10/7/2022**
- Average level = 0.555
- Variation = 0.0448

● **m45 kc 10/28/2022**
- Average level = 0.519
- Variation = 0.0444



Circular selection:
area = 9.3 mm²
diameter = 3.5 mm

Melanin

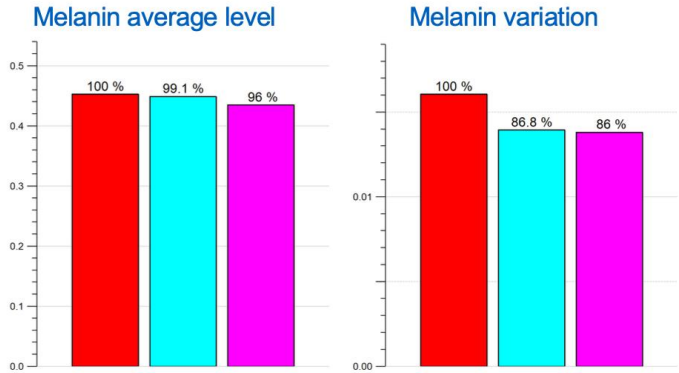


● **m16 kc 9/23/2022**
- Average level = 0.453
- Variation = 0.0161

16

● **m16 kc 10/7/2022**
- Average level = 0.449
- Variation = 0.0139

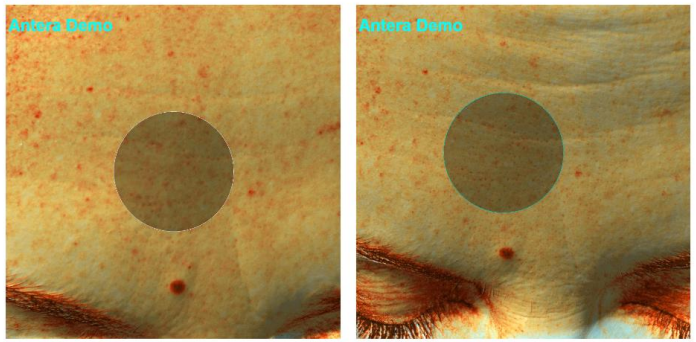
● **m16 kc 10/28/2022**
- Average level = 0.435
- Variation = 0.0138



Circular selection:
area = 54.8 mm²
diameter = 8.4 mm

Melanin average level and variation

Melanin



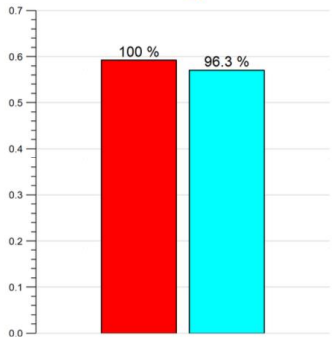
● **m44 kc 9/23/2022**

- Average level = 0.592
- Variation = 0.0208

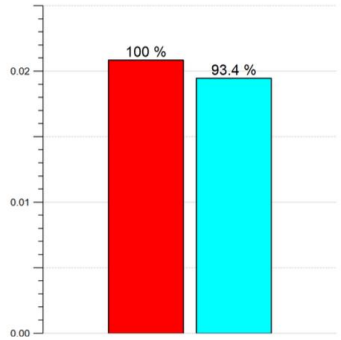
● **m44 kc 10/7/2022**

- Average level = 0.571
- Variation = 0.0195

Melanin average level

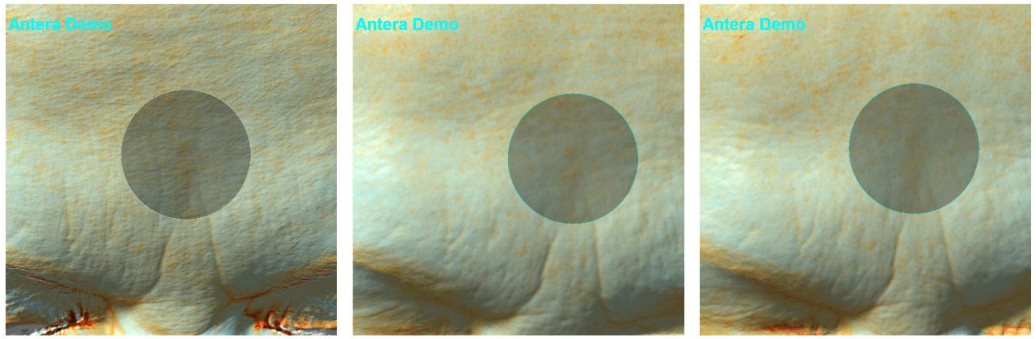


Melanin variation



Circular selection:
area = 314.9 mm²
diameter = 20.1 mm

Melanin



● **m67 kc 9/23/2022**

- Average level = 0.432
- Variation = 0.025

68

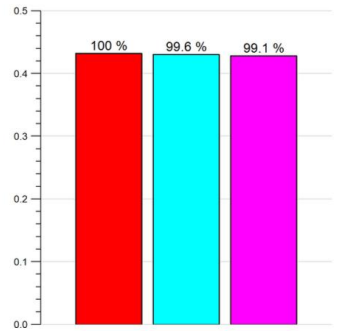
● **m67 kc 10/7/2022**

- Average level = 0.430
- Variation = 0.0241

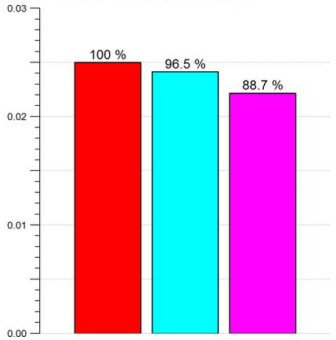
● **m67 kc 10/28/2022**

- Average level = 0.428
- Variation = 0.0222

Melanin average level



Melanin variation



Circular selection:
area = 376.2 mm²
diameter = 21.9 mm

Melanin average level and variation

Melanin

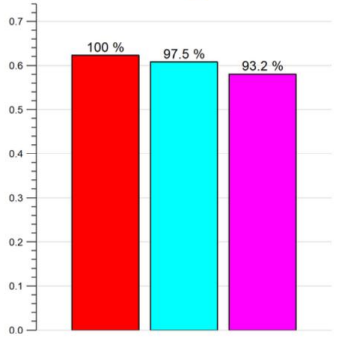
● v38 kc 9/23/2022 ● v38 kc 10/7/2022 ● v38 kc 10/28/2022

- Average level = 0.623
- Variation = 0.0597

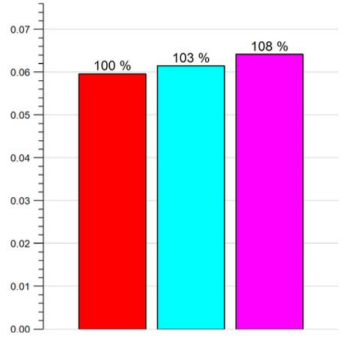
- Average level = 0.608
- Variation = 0.0615

- Average level = 0.581
- Variation = 0.0642

Melanin average level

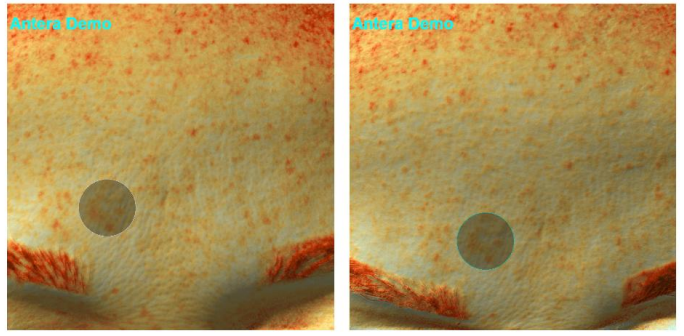


Melanin variation



Circular selection:
area = 15.0 mm²
diameter = 4.4 mm

Melanin



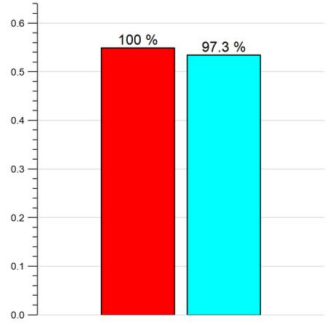
● m36 kc 9/23/2022 ● m36 kc 10/7/2022

- Average level = 0.549
- Variation = 0.0326

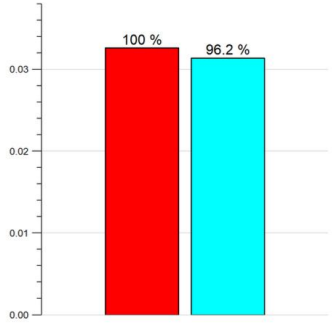
- Average level = 0.534
- Variation = 0.0314

36

Melanin average level



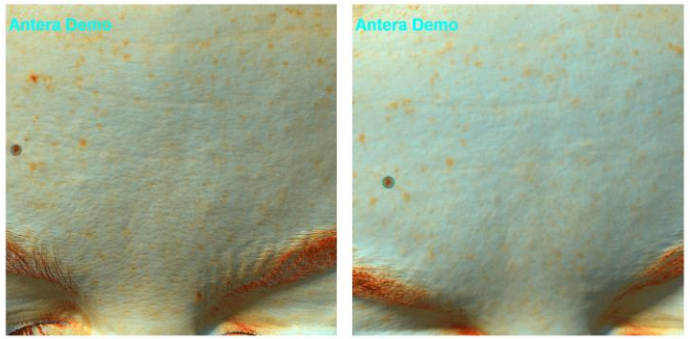
Melanin variation



Circular selection:
area = 74.8 mm²
diameter = 9.8 mm

Melanin average level and variation

Melanin



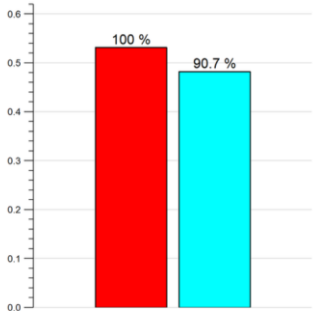
● **m24 kc 9/23/2022**

- Average level = 0.531
- Variation = 0.0873

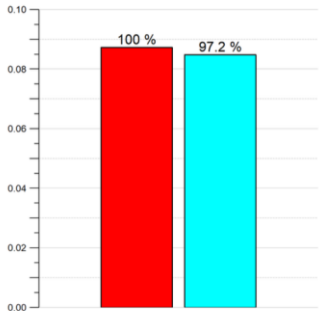
● **m24 kc 10/7/2022**

- Average level = 0.482
- Variation = 0.0848

Melanin average level

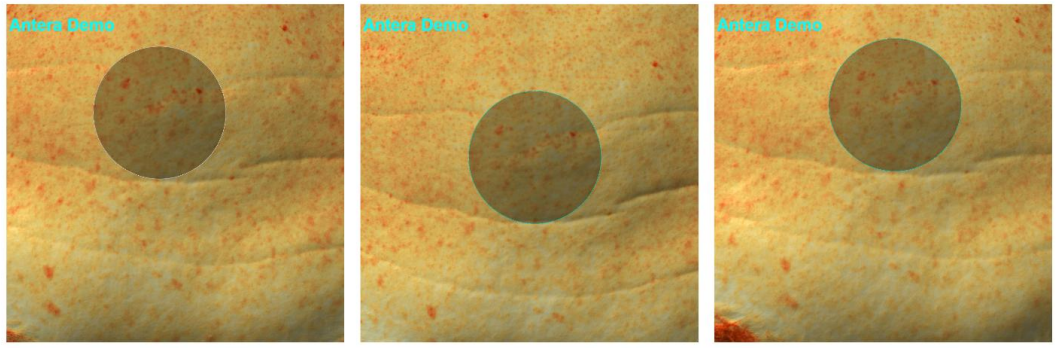


Melanin variation



Circular selection:
area = 3.3 mm²
diameter = 2.1 mm

Melanin



● **v33 kc 9/23/2022**

- Average level = 0.581
- Variation = 0.0288

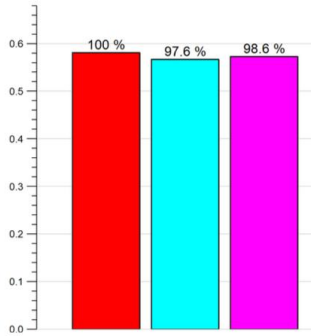
● **v33 kc 10/7/2022**

- Average level = 0.567
- Variation = 0.0255

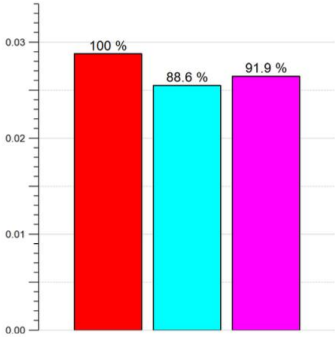
● **v33 kc 10/28/2022**

- Average level = 0.573
- Variation = 0.0265

Melanin average level



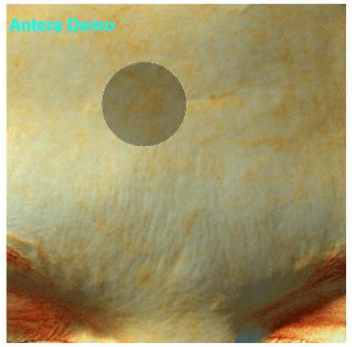
Melanin variation



Circular selection:
area = 376.3 mm²
diameter = 21.9 mm

Melanin average level and variation

Melanin



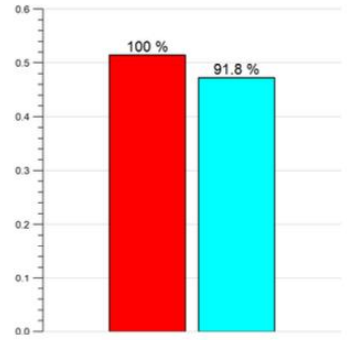
● **m36 kc 9/23/2022**

- Average level = 0.515
- Variation = 0.0268

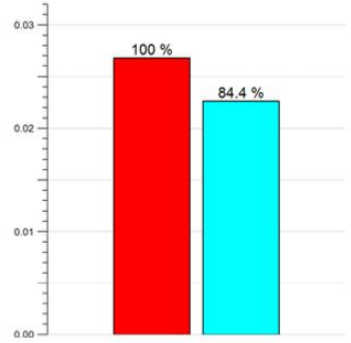
● **m36 kc 10/28/2022**

- Average level = 0.473
- Variation = 0.0226

Melanin average level



Melanin variation



Circular selection:
area = 152.8 mm²
diameter = 14.0 mm

Melanin

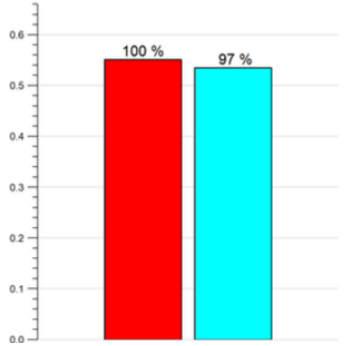
● **m18 kc 9/23/2022**

- Average level = 0.551
- Variation = 0.0222

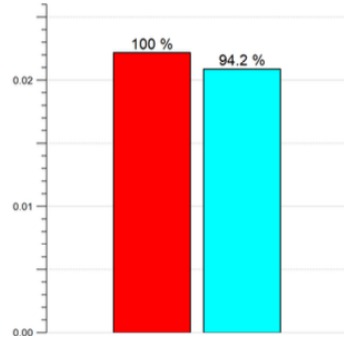
● **m18 kc 10/28/2022**

- Average level = 0.535
- Variation = 0.0209

Melanin average level



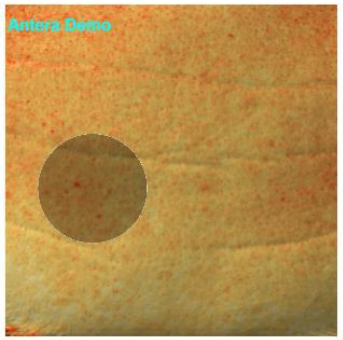
Melanin variation

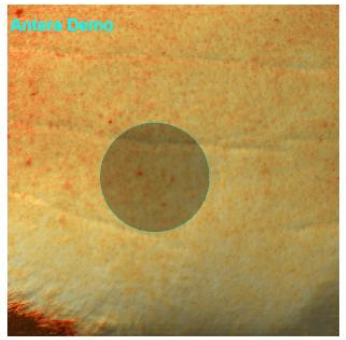


Circular selection:
area = 89.7 mm²
diameter = 10.7 mm

Melanin average level and variation

Melanin





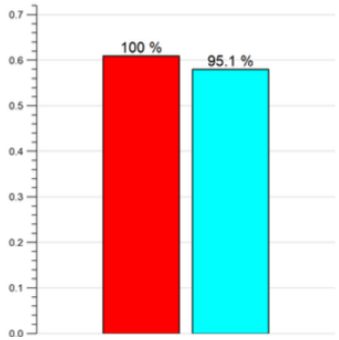
● **v40 kc 9/23/2022**

- Average level = 0.610
- Variation = 0.0228

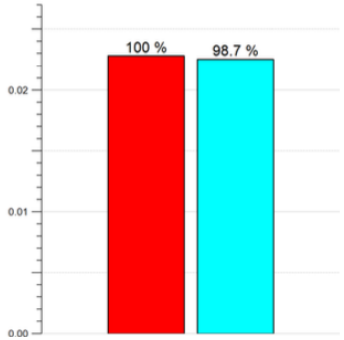
● **v40 kc 10/7/2022**

- Average level = 0.580
- Variation = 0.0225

Melanin average level



Melanin variation

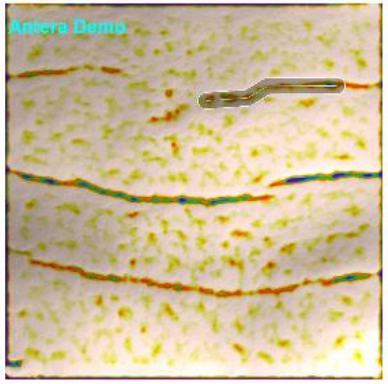


Circular selection:
area = 265.7 mm²
diameter = 18.4 mm

Wrinkles average level and variation

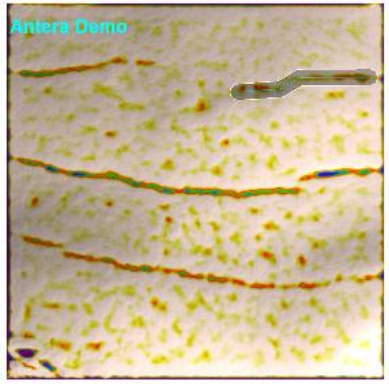
v33 kc 2022-9-23.an-img 9/23/2022 19:19

v33 kc 2022-10-28.an-img 10/28/2022 17:53



● v33 kc 2022-9-23.an-img 9/23/2022 19:19

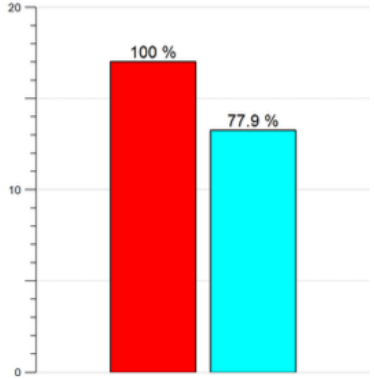
- Overall size = 17.0
- Depth = 0.0542 mm
- Width = 1.6 mm



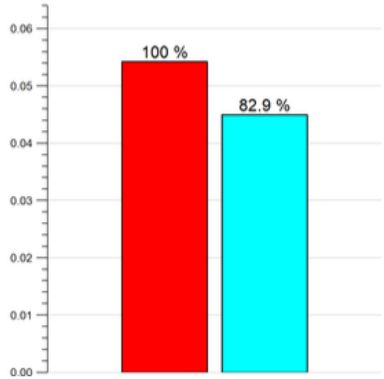
● v33 kc 2022-10-28.an-img 10/28/2022 17:53

- Overall size = 13.3
- Depth = 0.045 mm
- Width = 1.55 mm

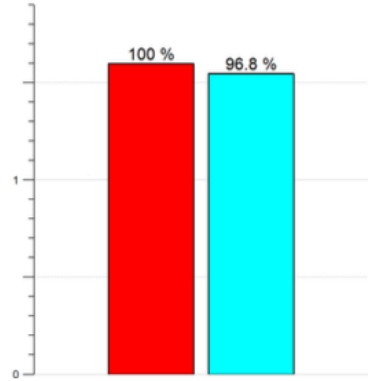
Wrinkle overall size under 1.1 mm of lateral size



Wrinkle average depth [mm] under 1.1 mm of lateral size

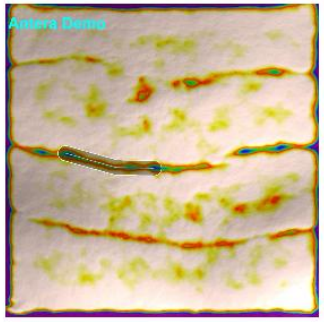


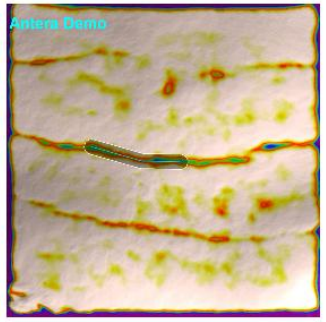
Wrinkle average width [mm] under 1.1 mm of lateral size



Strip selection:
area = 50.6 mm²
length = 19.9 mm
width = 2.3 mm

Wrinkles average level and variation



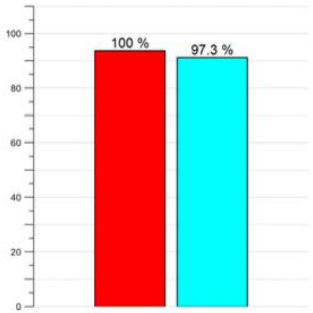


● **v33 kc 2022-9-23.an-img** **9/23/2022 19:19** ● **v33 kc 2022-10-28.an-img** **10/28/2022 17:53**

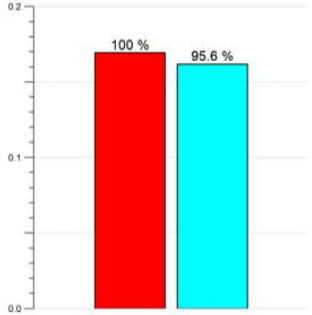
- Overall size = 93.7
- Depth = 0.169 mm
- Width = 2.37 mm

- Overall size = 91.3
- Depth = 0.162 mm
- Width = 2.33 mm

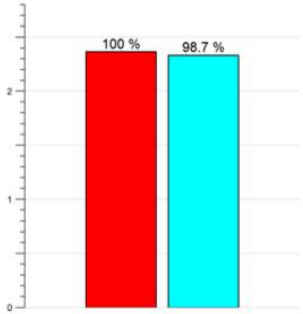
Wrinkle overall size under 2.6 mm of lateral size



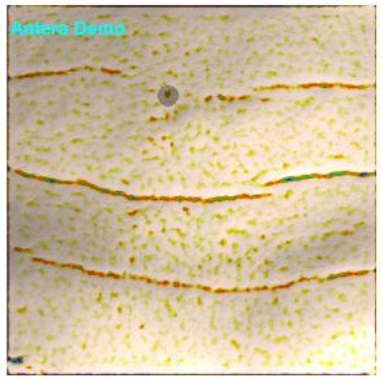
Wrinkle average depth [mm] under 2.6 mm of lateral size

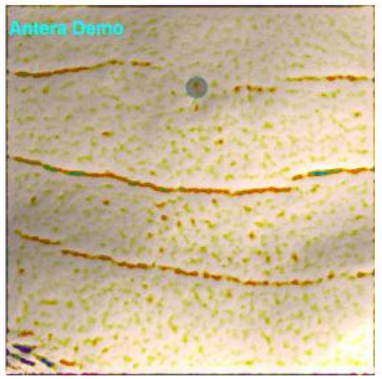


Wrinkle average width [mm] under 2.6 mm of lateral size



Strip selection:
area = 46.6 mm²
length = 16.2 mm
width = 2.6 mm



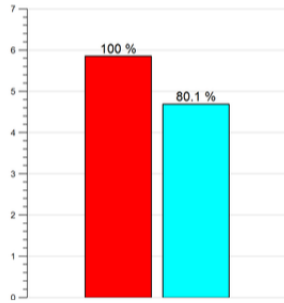


● **v33 kc 2022-9-23.an-img** **9/23/2022 19:19** ● **v33 kc 2022-10-28.an-img** **10/28/2022 17:53**

- Indentation index = 5.855

- Indentation index = 4.692

Indentation index under 0.7 mm of lateral size

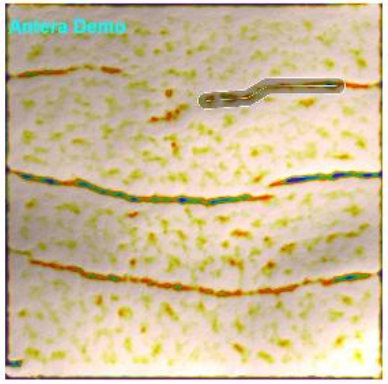


Circular selection:
area = 8.1 mm²
diameter = 3.3 mm

Wrinkles average level and variation

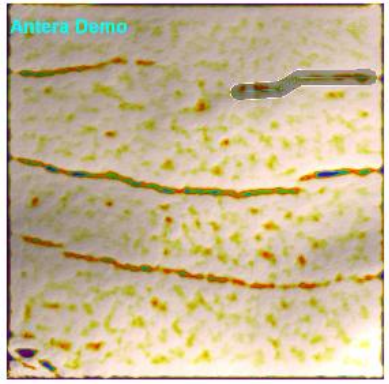
v33 kc 2022-9-23.an-img 9/23/2022 19:19

v33 kc 2022-10-28.an-img 10/28/2022 17:53



● v33 kc 2022-9-23.an-img 9/23/2022 19:19

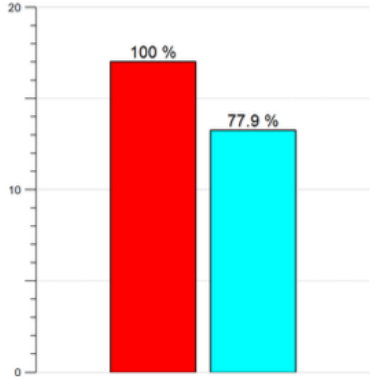
- Overall size = 17.0
- Depth = 0.0542 mm
- Width = 1.6 mm



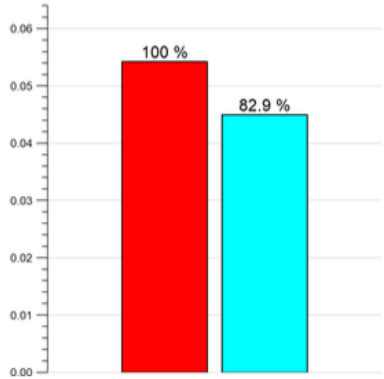
● v33 kc 2022-10-28.an-img 10/28/2022 17:53

- Overall size = 13.3
- Depth = 0.045 mm
- Width = 1.55 mm

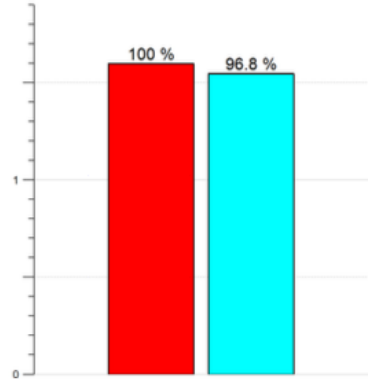
Wrinkle overall size under 1.1 mm of lateral size



Wrinkle average depth [mm] under 1.1 mm of lateral size



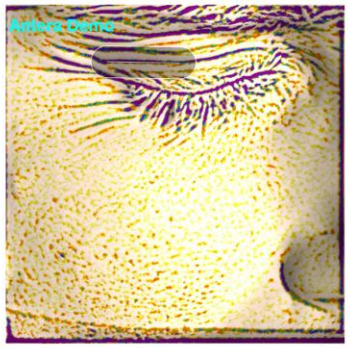
Wrinkle average width [mm] under 1.1 mm of lateral size



Strip selection:
area = 50.6 mm²
length = 19.9 mm
width = 2.3 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)



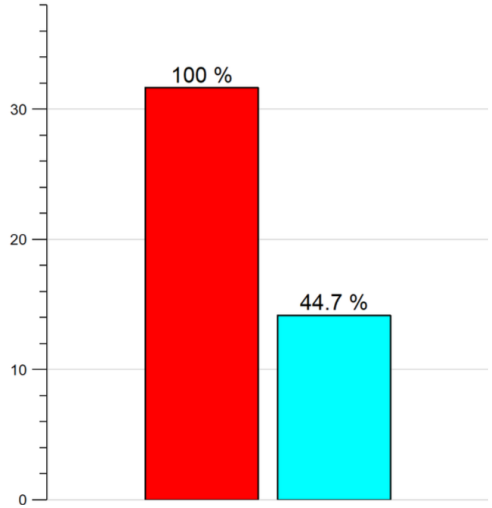
● **m39 ad 9/23/2022**

- Overall size = 31.7
- Depth = 0.0849 mm
- Width = 2.76 mm

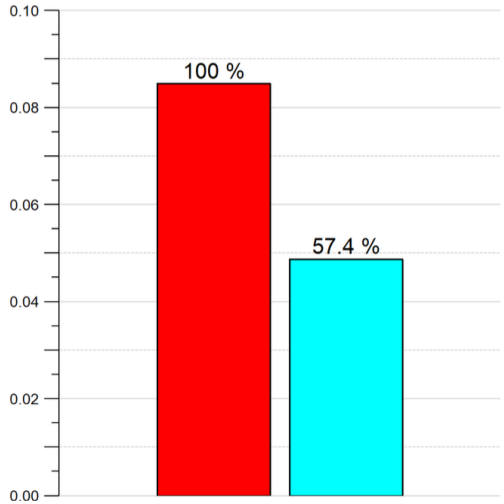
● **m39 ad 10/28/2022**

- Overall size = 14.2
- Depth = 0.0487 mm
- Width = 2.9 mm

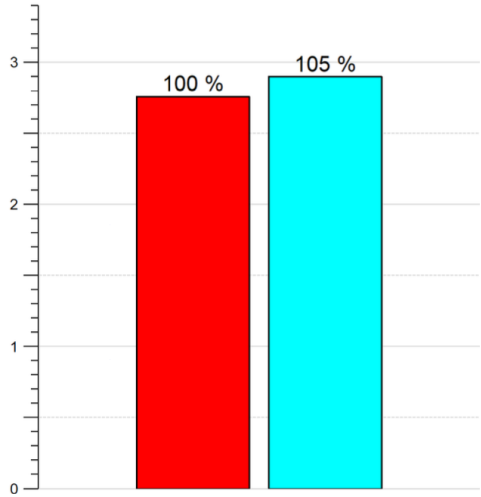
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



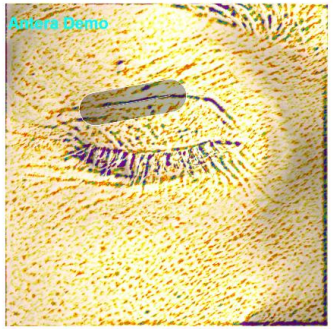
Wrinkle average width [mm] under 0.5 mm of lateral size



Strip selection:
area = 82.9 mm²
length = 12.1 mm
width = 5.1 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)

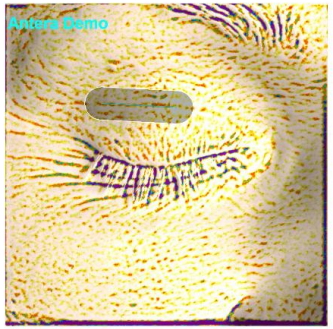


● **m45 ad 9/23/2022**

- Overall size = 19.4
- Depth = 0.0572 mm
- Width = 3.26 mm

● **m45 ad 10/7/2022**

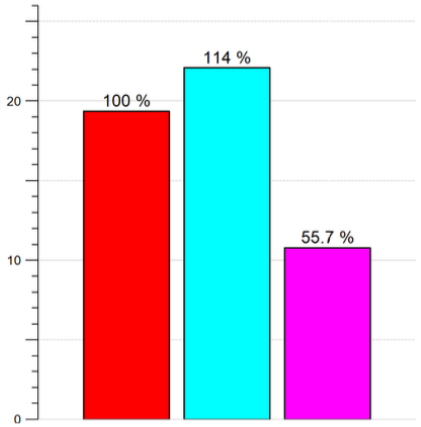
- Overall size = 22.1
- Depth = 0.0873 mm
- Width = 3.09 mm



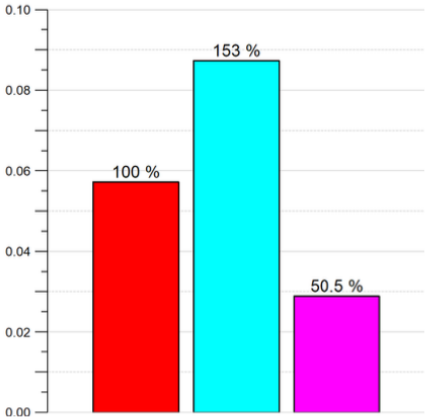
● **m45 ad 10/28/2022**

- Overall size = 10.8
- Depth = 0.0289 mm
- Width = 3.3 mm

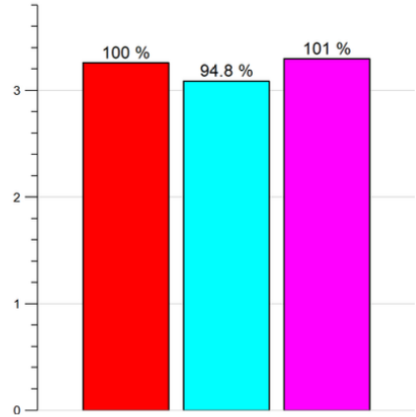
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



Wrinkle average width [mm] under 0.5 mm of lateral size



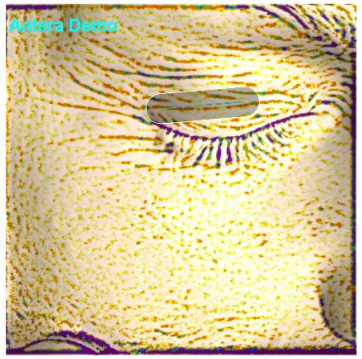
Strip selection:
area = 98.1 mm²
length = 13.1 mm
width = 5.6 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)

● **m47 ad 9/23/2022**

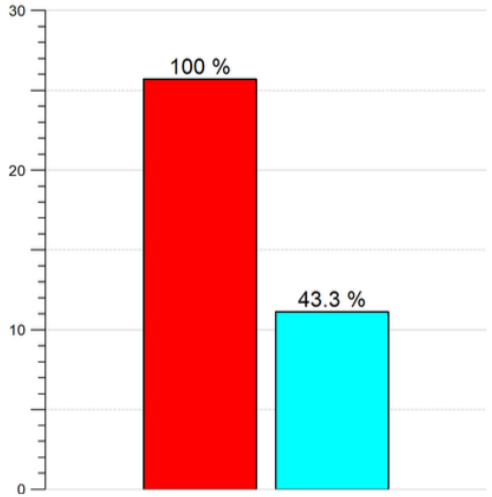
- Overall size = 25.7
- Depth = 0.0923 mm
- Width = 2.8 mm



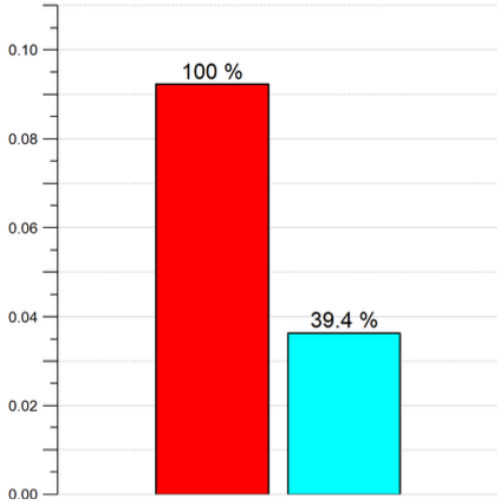
● **m47 ad 10/7/2022**

- Overall size = 11.1
- Depth = 0.0364 mm
- Width = 2.48 mm

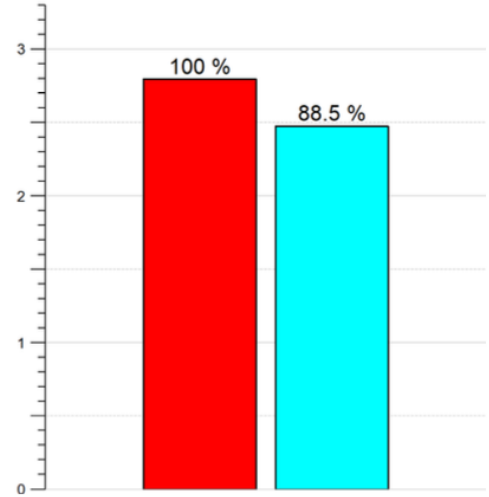
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



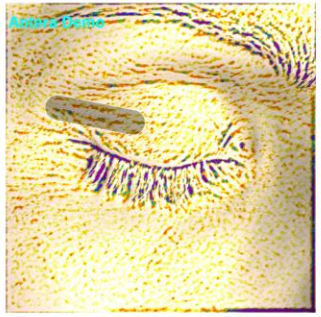
Wrinkle average width [mm] under 0.5 mm of lateral size

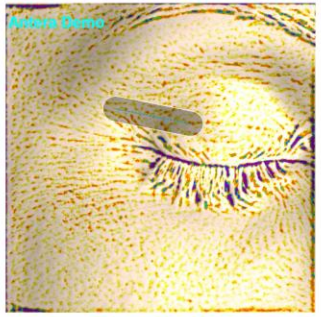


Strip selection:
area = 79.1 mm²
length = 13.3 mm
width = 4.7 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)





● **m40 ad 9/23/2022**

- Overall size = 11.7
- Depth = 0.0343 mm
- Width = 2.65 mm

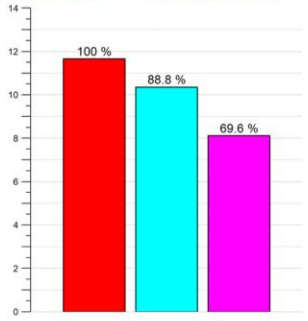
● **m40 ad 10/7/2022**

- Overall size = 10.4
- Depth = 0.0286 mm
- Width = 2.72 mm

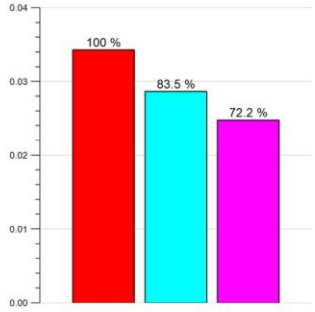
● **m40 ad 10/28/2022**

- Overall size = 8.1
- Depth = 0.0248 mm
- Width = 2.65 mm

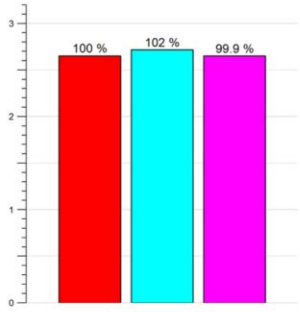
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size

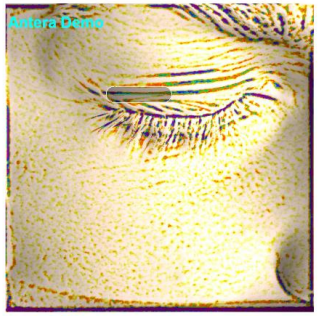


Wrinkle average width [mm] under 0.5 mm of lateral size



Strip selection:
area = 76.9 mm²
length = 13.8 mm
width = 4.4 mm

Wrinkles: Custom (0.1 - 0.5 mm)



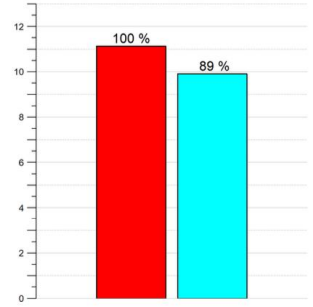
● **m24 ad 9/23/2022**

- Overall size = 11.1
- Depth = 0.0571 mm
- Width = 1.26 mm

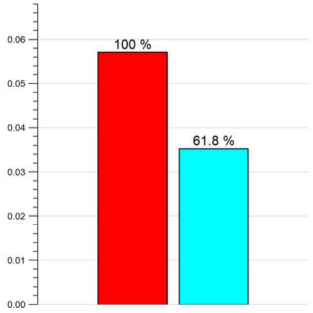
● **m24 ad 10/7/2022**

- Overall size = 9.9
- Depth = 0.0353 mm
- Width = 1.51 mm

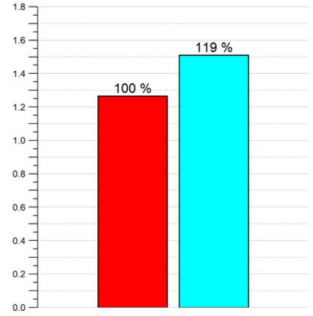
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



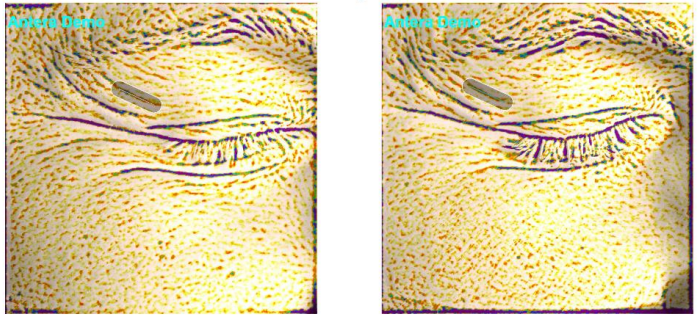
Wrinkle average width [mm] under 0.5 mm of lateral size



Strip selection:
area = 31.3 mm²
length = 9.0 mm
width = 2.8 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)



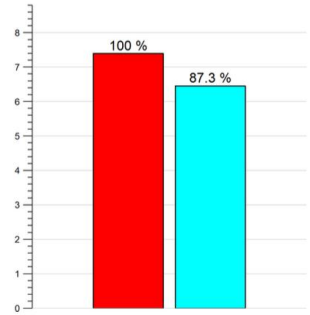
● **m53 ad 9/23/2022**

- Overall size = 7.4
- Depth = 0.0362 mm
- Width = 1.53 mm

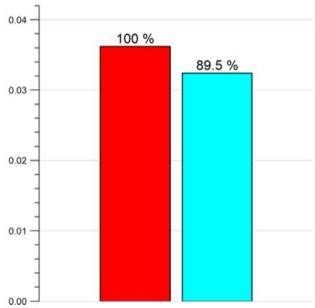
● **m53 ad 10/7/2022**

- Overall size = 6.5
- Depth = 0.0324 mm
- Width = 1.55 mm

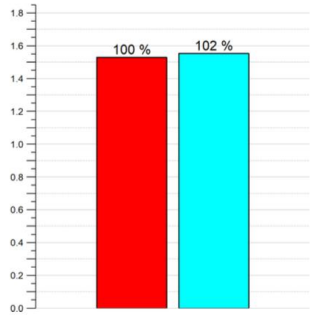
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size

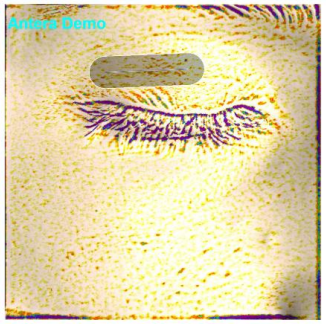


Wrinkle average width [mm] under 0.5 mm of lateral size



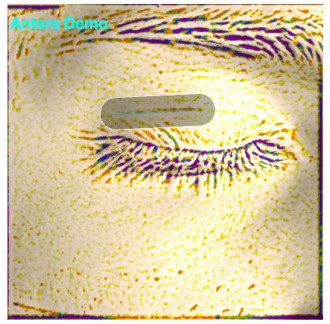
Strip selection:
area = 25.2 mm²
length = 6.8 mm
width = 2.8 mm

Wrinkles: Custom (0.1 - 0.5 mm)



● **m16 ad 9/23/2022**

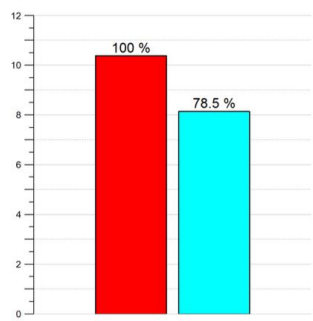
- Overall size = 10.4
- Depth = 0.0342 mm
- Width = 3.47 mm



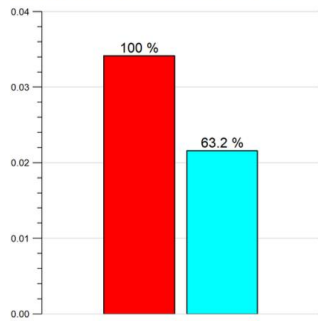
● **m16 ad 10/28/2022**

- Overall size = 8.1
- Depth = 0.0216 mm
- Width = 3.33 mm

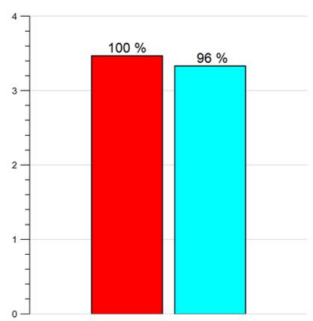
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



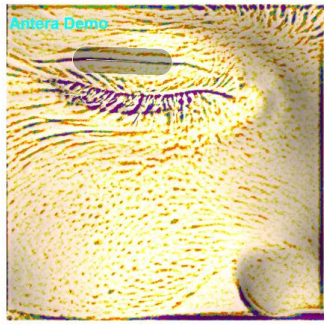
Wrinkle average width [mm] under 0.5 mm of lateral size

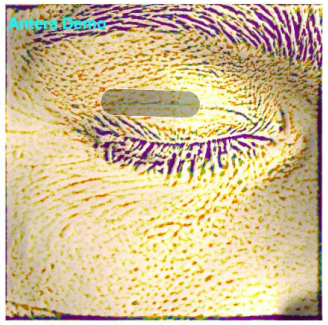


Strip selection:
area = 106.8 mm²
length = 14.7 mm
width = 5.6 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)





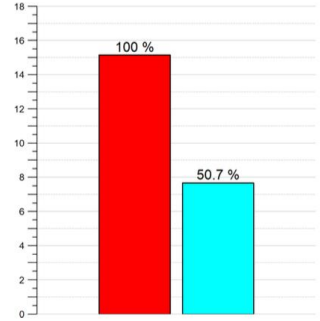
● **m36 ad 9/23/2022**

- Overall size = 15.2
- Depth = 0.0536 mm
- Width = 2.6 mm

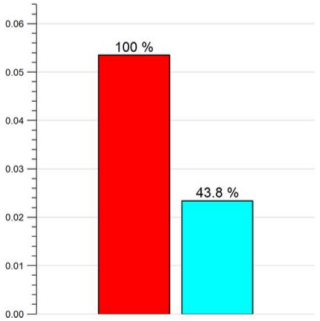
● **m36 ad 10/28/2022**

- Overall size = 7.7
- Depth = 0.0234 mm
- Width = 2.81 mm

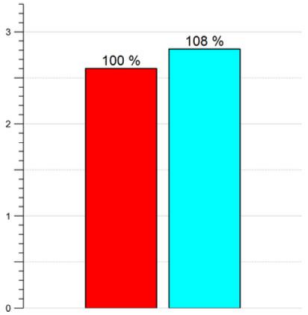
Wrinkle overall size
under 0.5 mm of lateral size



Wrinkle average depth [mm]
under 0.5 mm of lateral size

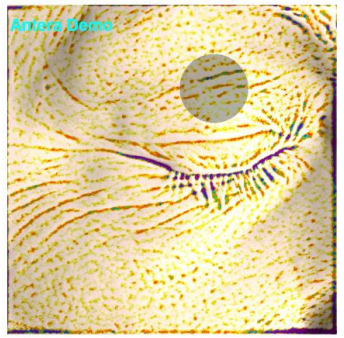


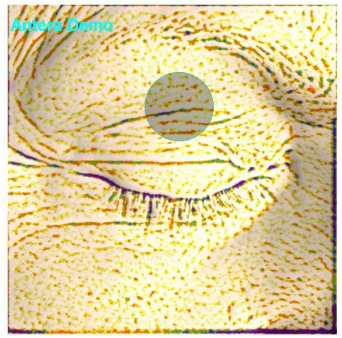
Wrinkle average width [mm]
under 0.5 mm of lateral size

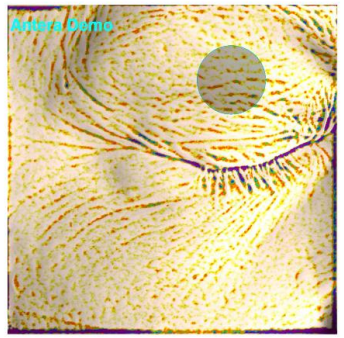


Strip selection:
area = 76.9 mm²
length = 12.8 mm
width = 4.7 mm

Wrinkles: Custom (0.1 - 0.5 mm)







● **m67 ad 9/23/2022**

- Indentation index = 5.941

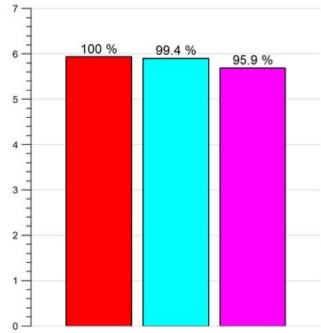
● **m67 ad 10/7/2022**

- Indentation index = 5.904

● **m67 ad 10/28/2022**

- Indentation index = 5.695

Indentation index
under 0.5 mm of lateral size



Circular selection:
area = 106.0 mm²
diameter = 11.7 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)

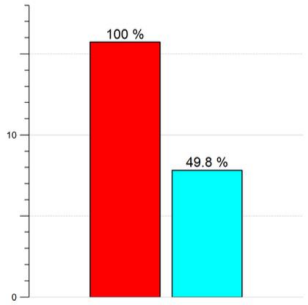
● **m44 ad 9/23/2022**

- Overall size = 15.7
- Depth = 0.0551 mm
- Width = 2.03 mm

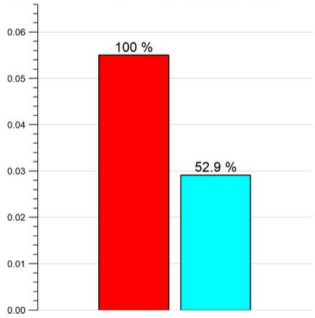
● **m44 ad 10/7/2022**

- Overall size = 7.8
- Depth = 0.0291 mm
- Width = 1.78 mm

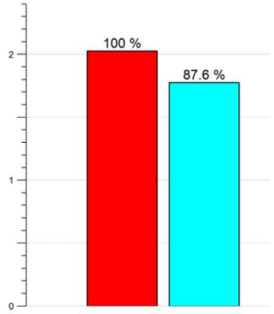
Wrinkle overall size under 0.5 mm of lateral size



Wrinkle average depth [mm] under 0.5 mm of lateral size



Wrinkle average width [mr under 0.5 mm of lateral siz

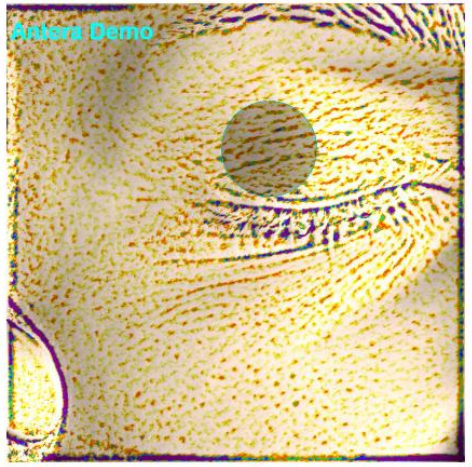


Strip selection:
area = 49.7 mm²
length = 12.7 mm
width = 3.3 mm

Wrinkles: Custom (0.1 - 0.5 mm)

● **m36 ad 9/23/2022**

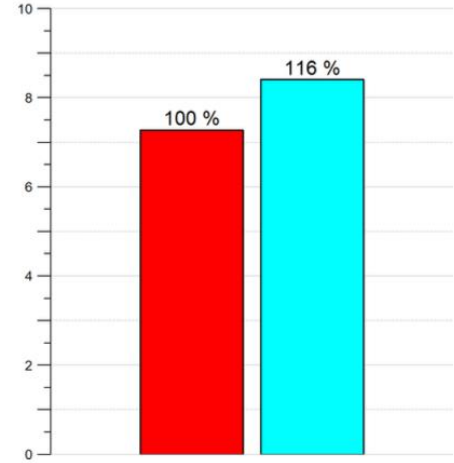
- Indentation index = 7.279



● **m36 ad 10/7/2022**

- Indentation index = 8.411

Indentation index under 0.5 mm of lateral size



Circular selection:
area = 106.0 mm²
diameter = 11.7 mm

Wrinkles average level and variation

Wrinkles: Custom (0.1 - 0.5 mm)

● **v38 ad 9/23/2022**

- Overall size = 9.9
- Depth = 0.0445 mm
- Width = 1.75 mm

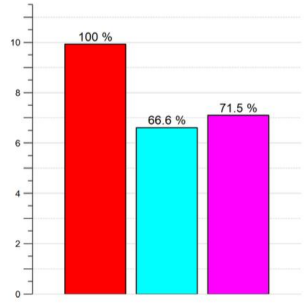
● **v38 ad 10/7/2022**

- Overall size = 6.6
- Depth = 0.029 mm
- Width = 1.67 mm

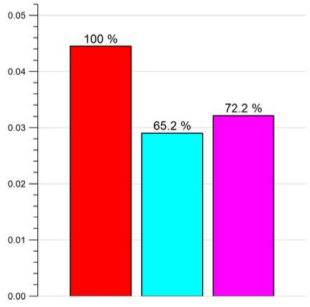
● **v38 ad 10/28/2022**

- Overall size = 7.1
- Depth = 0.0322 mm
- Width = 1.57 mm

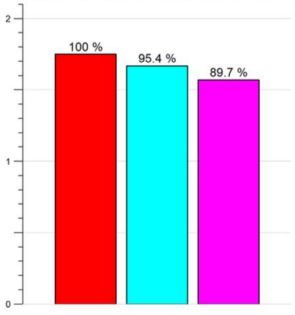
Wrinkle overall size
under 0.5 mm of lateral size



Wrinkle average depth [mm]
under 0.5 mm of lateral size

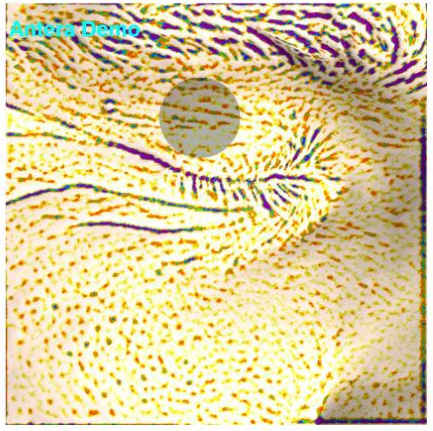


Wrinkle average width [mm]
under 0.5 mm of lateral size



Strip selection:
area = 36.2 mm²
length = 8.5 mm
width = 3.3 mm

Wrinkles: Custom (0.1 - 0.5 mm)



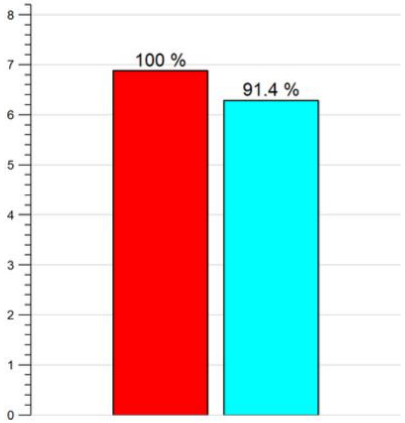
● **v40 ad 9/23/2022**

- Indentation index = 6.884

● **v40 ad 10/7/2022**

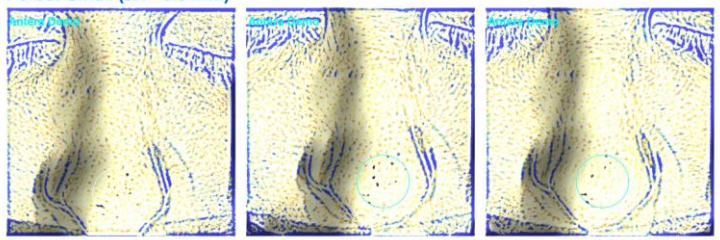
- Indentation index = 6.291

Indentation index
under 0.5 mm of lateral size



Pores average level and variation

Pores: Small (0.1 - 0.5 mm)

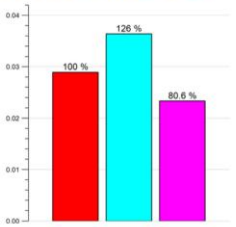


● m40 n 9/23/2022 - Volume = 0.029 mm³

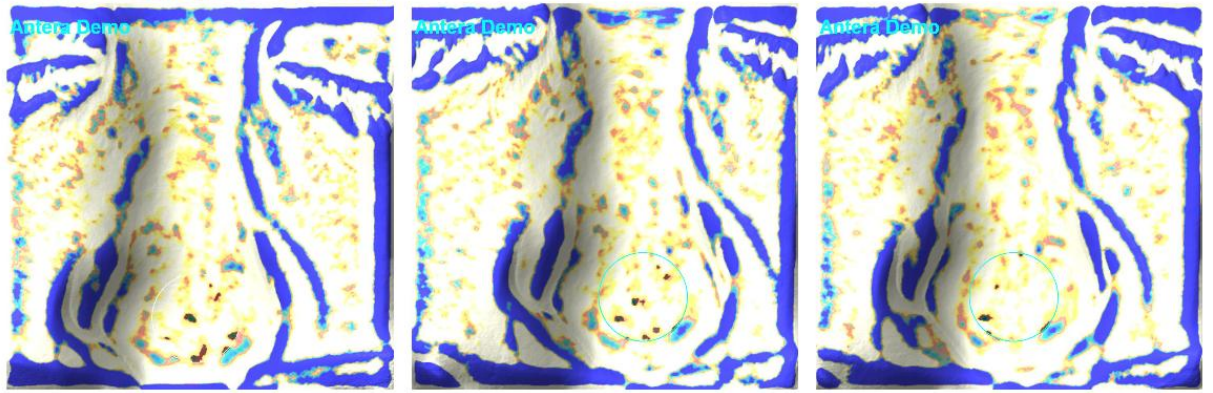
● m40 n 10/7/2022 - Volume = 0.036 mm³

● m40 n 10/28/2022 - Volume = 0.023 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Pores: Large (0.1 - 1.5 mm)

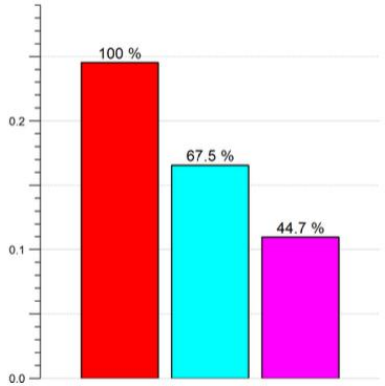


● m40 n 9/23/2022 - Volume = 0.245 mm³

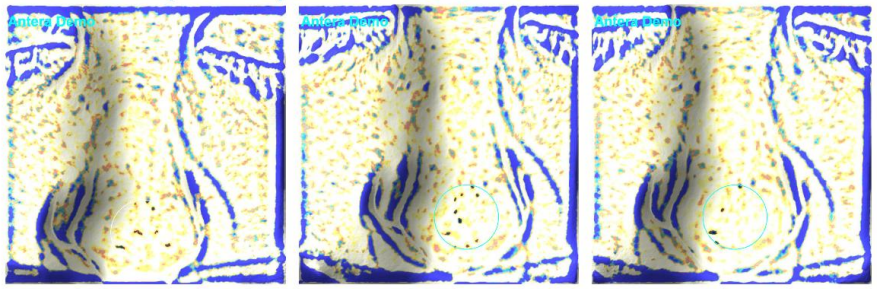
● m40 n 10/7/2022 - Volume = 0.166 mm³

● m40 n 10/28/2022 - Volume = 0.110 mm³

Volume of pores [mm³] under 1.5 mm of lateral size



Pores: Medium (0.1 - 1 mm)

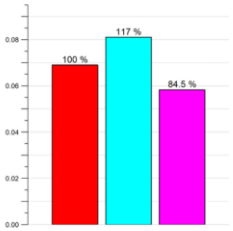


● m40 n 9/23/2022 - Volume = 0.069 mm³

● m40 n 10/7/2022 - Volume = 0.081 mm³

● m40 n 10/28/2022 - Volume = 0.058 mm³

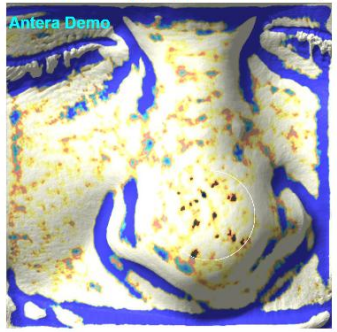
Volume of pores [mm³] under 1.0 mm of lateral size

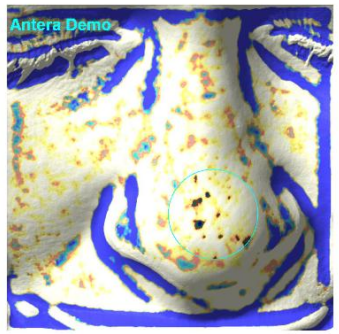


Circular selection:
area = 128.2 mm²
diameter = 12.8 mm

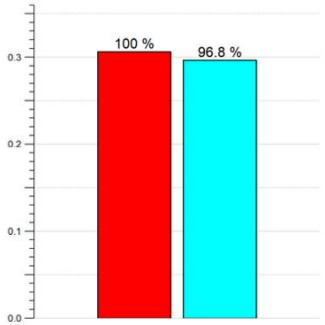
Pores average level and variation

Pores: Large (0.1 - 1.5 mm)





Volume of pores [mm³] under 1.5 mm of lateral size



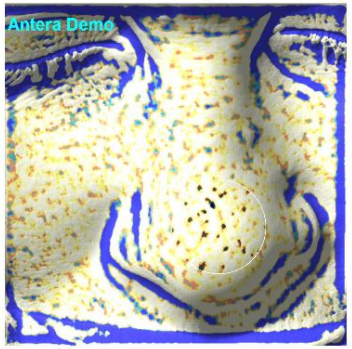
● **m39 n 9/23/2022**

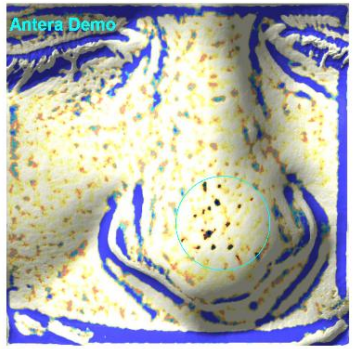
- Volume = 0.306 mm³

● **m39 n 10/28/2022**

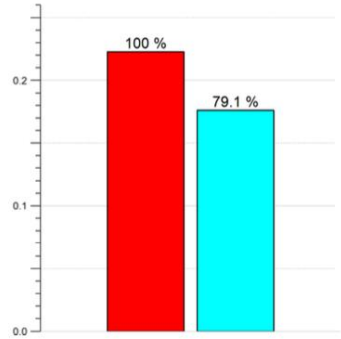
- Volume = 0.296 mm³

Pores: Medium (0.1 - 1 mm)





Volume of pores [mm³] under 1.0 mm of lateral size



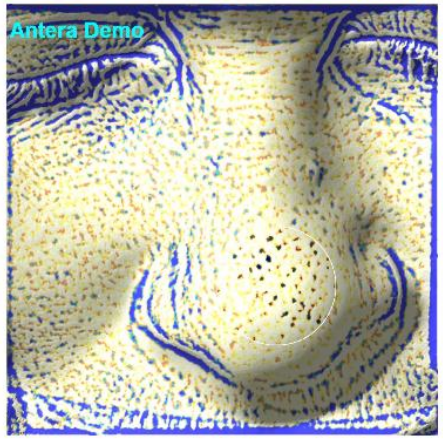
● **m39 n 9/23/2022**

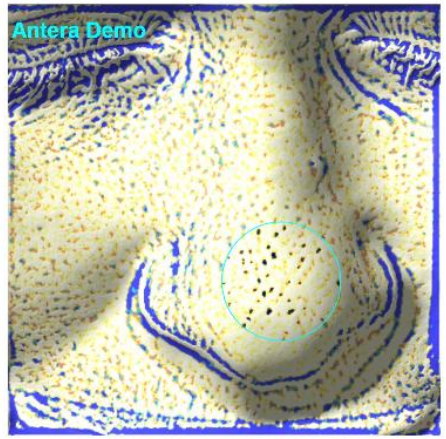
- Volume = 0.223 mm³

● **m39 n 10/28/2022**

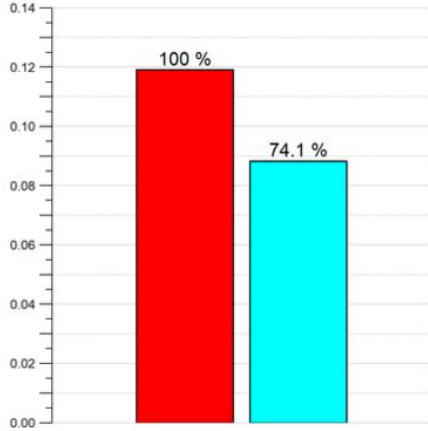
- Volume = 0.176 mm³

Pores: Small (0.1 - 0.5 mm)





Volume of pores [mm³] under 0.5 mm of lateral size



● **m39 n 9/23/2022**

- Volume = 0.119 mm³

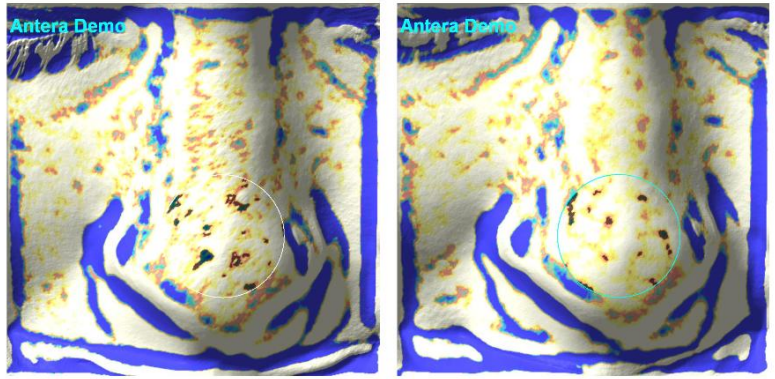
● **m39 n 10/28/2022**

- Volume = 0.088 mm³

Circular selection:
area = 185.0 mm²
diameter = 15.4 mm

Pores average level and variation

Pores: Large (0.1 - 1.5 mm)



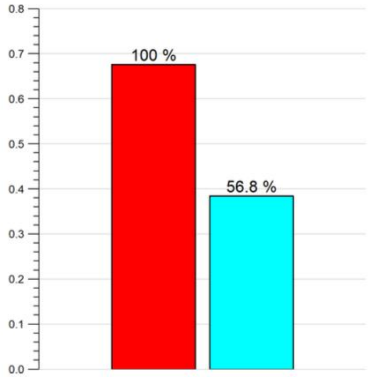
● **m18 n 9/23/2022**

- Volume = 0.676 mm³

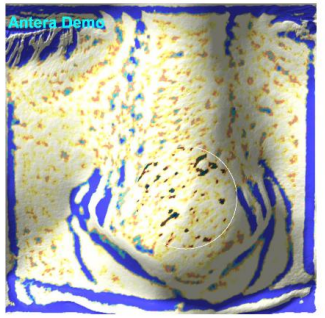
● **m18 n 10/28/2022**

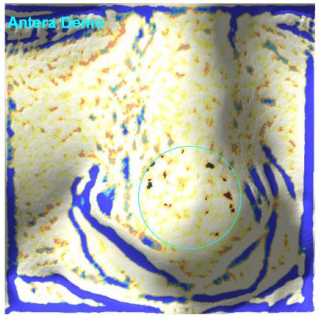
- Volume = 0.384 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size



Pores: Medium (0.1 - 1 mm)





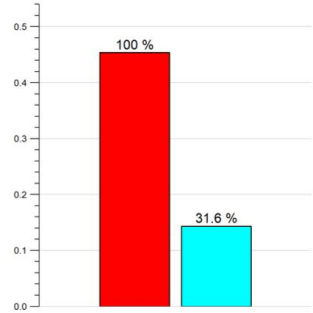
● **m18 n 9/23/2022**

- Volume = 0.454 mm³

● **m18 n 10/28/2022**

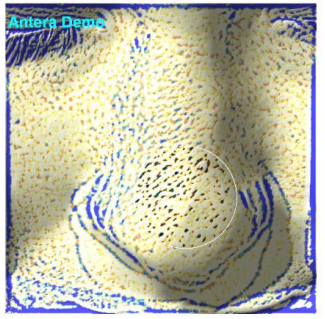
- Volume = 0.143 mm³

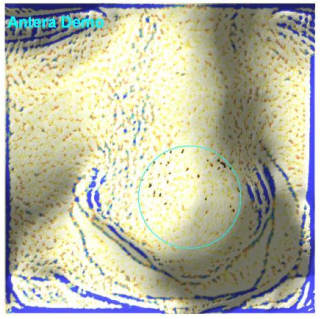
Volume of pores [mm³]
under 1.0 mm of lateral size



Circular selection:
area = 265.7 mm²
diameter = 18.4 mm

Pores: Small (0.1 - 0.5 mm)





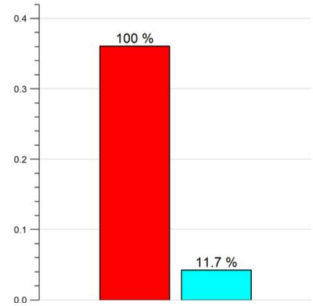
● **m18 n 9/23/2022**

- Volume = 0.361 mm³

● **m18 n 10/28/2022**

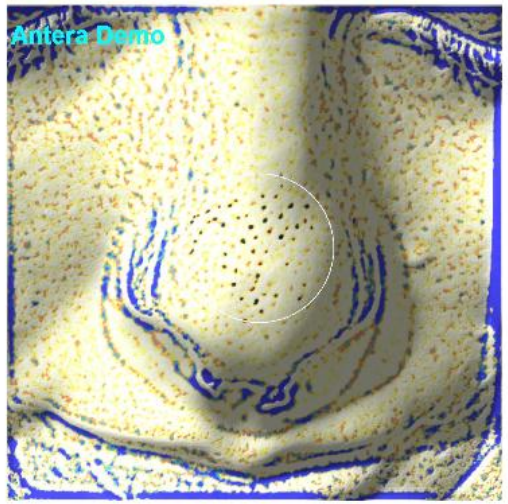
- Volume = 0.042 mm³

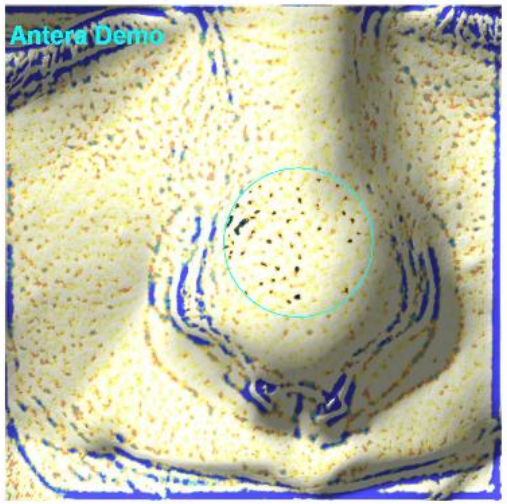
Volume of pores [mm³]
under 0.5 mm of lateral size



Pores average level and variation

Pores: Small (0.1 - 0.5 mm)





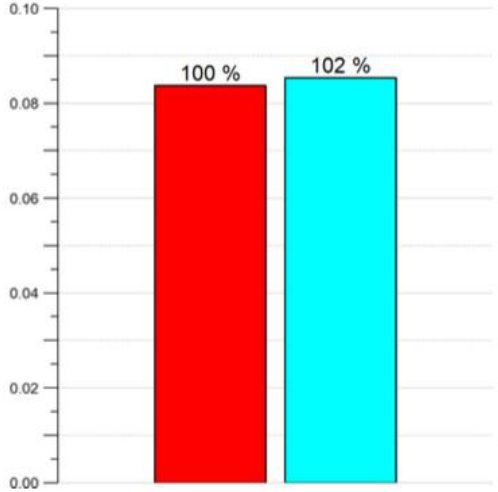
● **m24 n 9/23/2022**

- Volume = 0.084 mm³

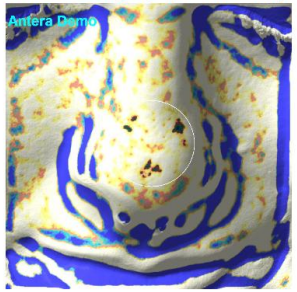
● **m24 n 10/7/2022**

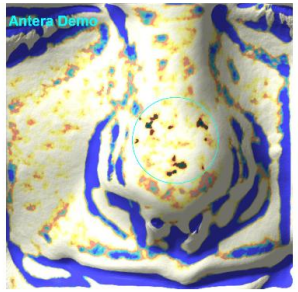
- Volume = 0.085 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Pores: Large (0.1 - 1.5 mm)





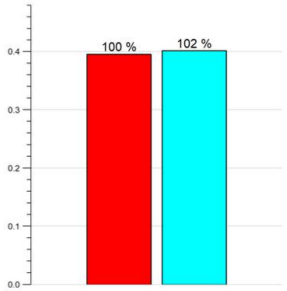
● **m24 n 9/23/2022**

- Volume = 0.395 mm³

● **m24 n 10/7/2022**

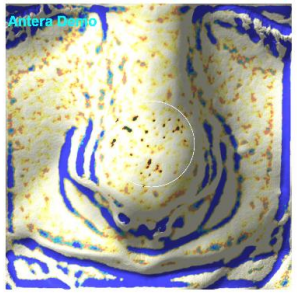
- Volume = 0.401 mm³

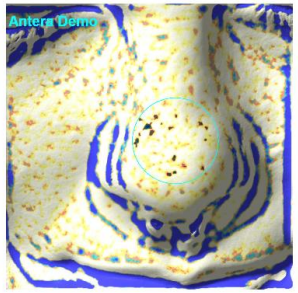
Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 220.4 mm²
diameter = 16.8 mm

Pores: Medium (0.1 - 1 mm)





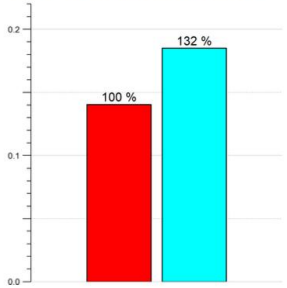
● **m24 n 9/23/2022**

- Volume = 0.140 mm³

● **m24 n 10/7/2022**

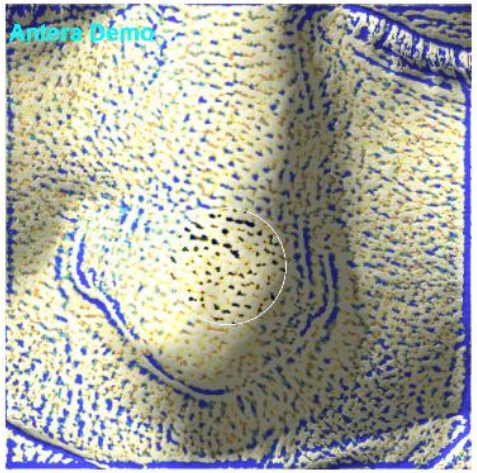
- Volume = 0.185 mm³

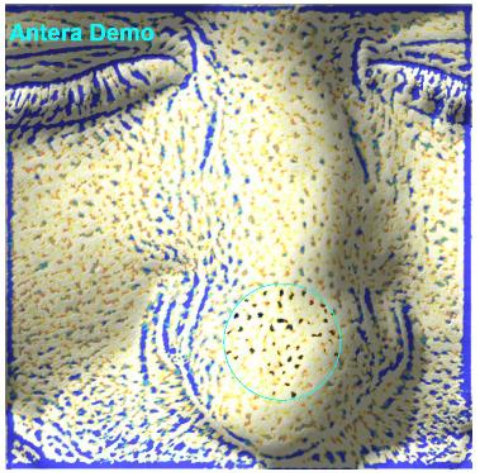
Volume of pores [mm³] under 1.0 mm of lateral size



Pores average level and variation

Pores: Small (0.1 - 0.5 mm)





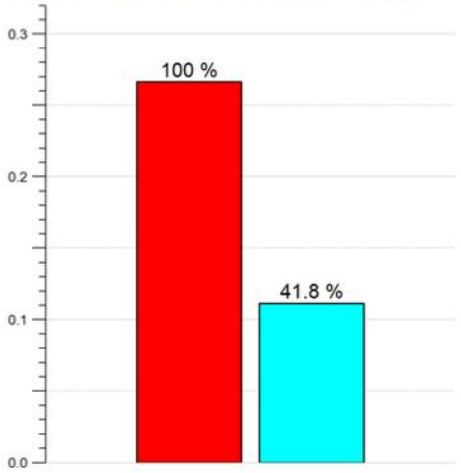
● **m53 n 9/23/2022**

- Volume = 0.266 mm³

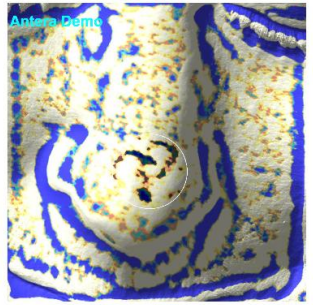
● **m53 n 10/7/2022**

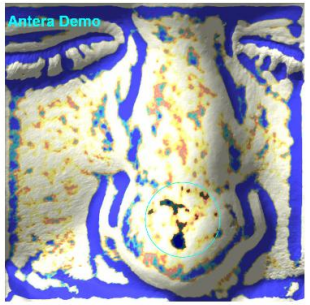
- Volume = 0.111 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Pores: Large (0.1 - 1.5 mm)





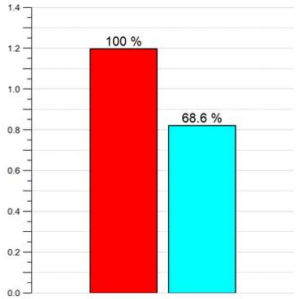
● **m53 n 9/23/2022**

- Volume = 1.20 mm³

● **m53 n 10/7/2022**

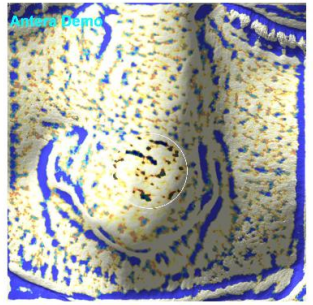
- Volume = 0.821 mm³

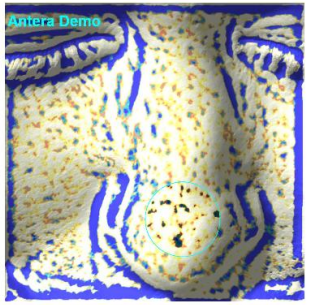
Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 153.0 mm²
diameter = 14.0 mm

Pores: Medium (0.1 - 1 mm)





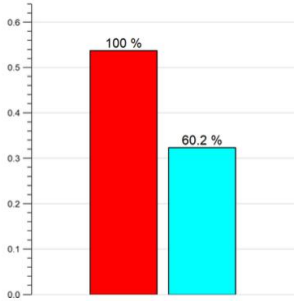
● **m53 n 9/23/2022**

- Volume = 0.538 mm³

● **m53 n 10/7/2022**

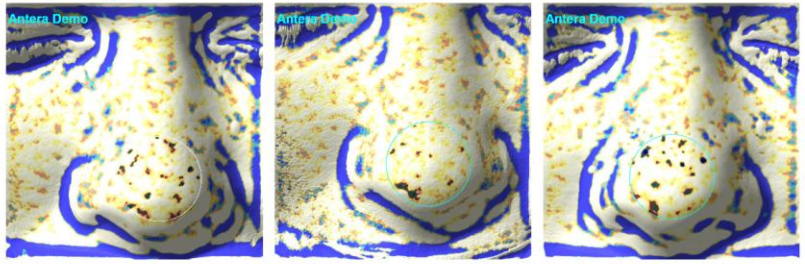
- Volume = 0.324 mm³

Volume of pores [mm³] under 1.0 mm of lateral size



Pores average level and variation

Pores: Large (0.1 - 1.5 mm)

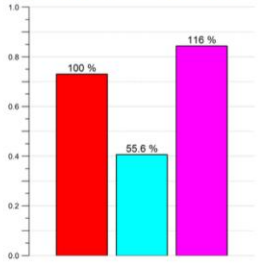


● m45 n 9/23/2022 - Volume = 0.731 mm³

● m45 n 10/7/2022 - Volume = 0.406 mm³

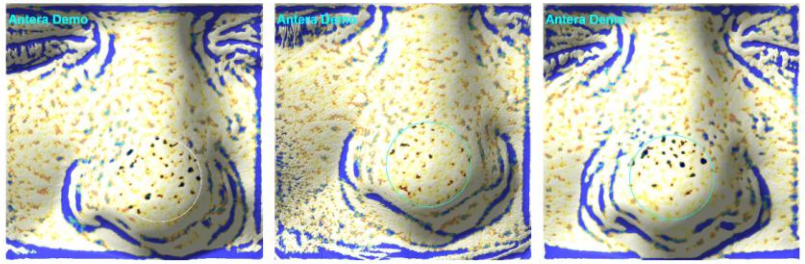
● m45 n 10/28/2022 - Volume = 0.844 mm³

Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 265.5 mm²
diameter = 18.4 mm

Pores: Medium (0.1 - 1 mm)

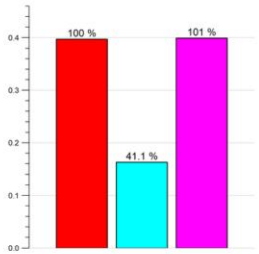


● m45 n 9/23/2022 - Volume = 0.397 mm³

● m45 n 10/7/2022 - Volume = 0.163 mm³

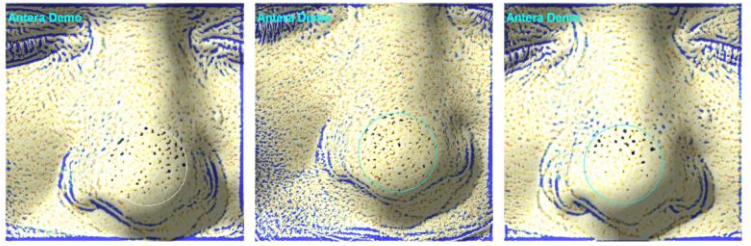
● m45 n 10/28/2022 - Volume = 0.399 mm³

Volume of pores [mm³] under 1.0 mm of lateral size



Circular selection:
area = 265.5 mm²
diameter = 18.4 mm

Pores: Small (0.1 - 0.5 mm)

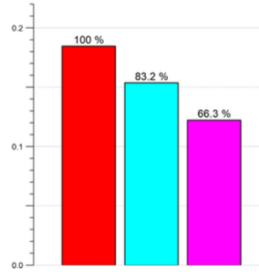


● m45 n 9/23/2022 - Volume = 0.185 mm³

● m45 n 10/7/2022

● m45 n 10/28/2022 - Volume = 0.122 mm³

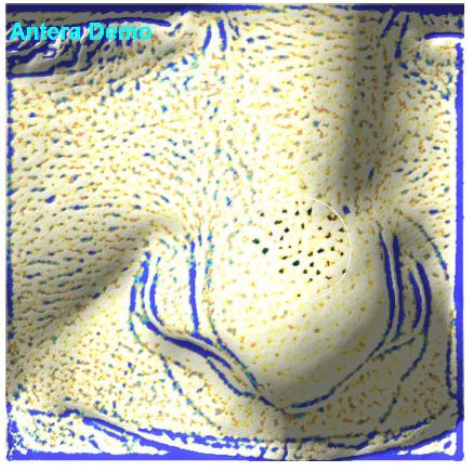
Volume of pores [mm³] under 0.5 mm of lateral size

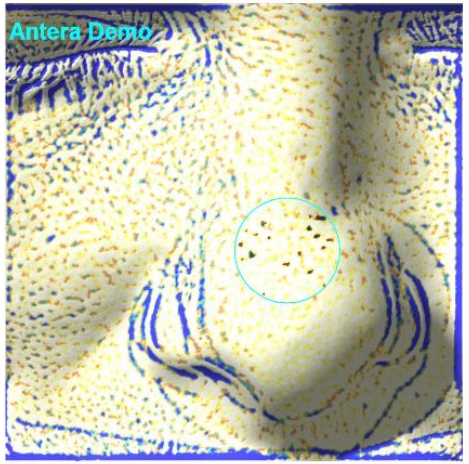


Circular selection:
area = 265.6 mm²
diameter = 18.4 mm

Pores average level and variation

Pores: Small (0.1 - 0.5 mm)





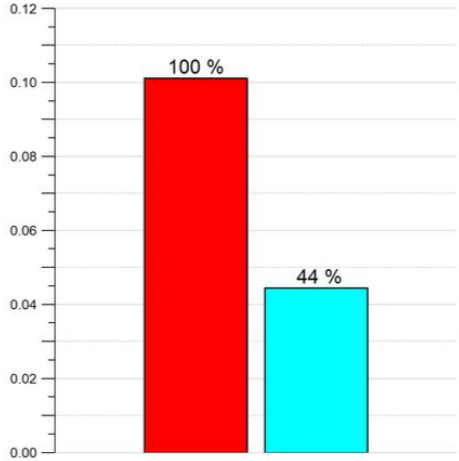
● **m36 n 9/23/2022**

- Volume = 0.101 mm³

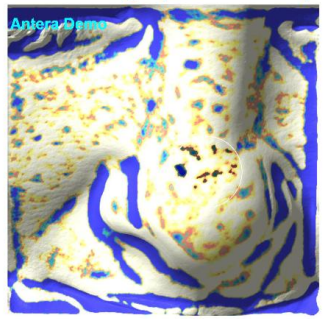
● **m36 n 10/28/2022**

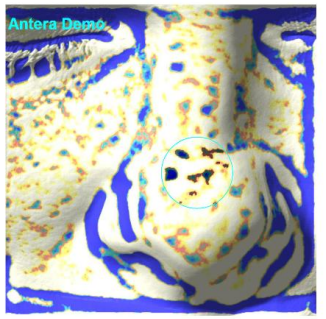
- Volume = 0.044 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Pores: Large (0.1 - 1.5 mm)





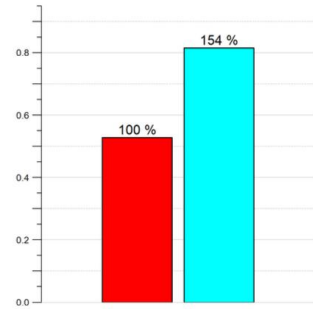
● **m36 n 9/23/2022**

- Volume = 0.528 mm³

● **m36 n 10/28/2022**

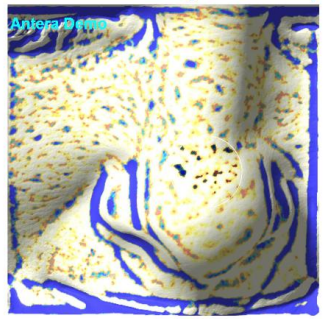
- Volume = 0.815 mm³

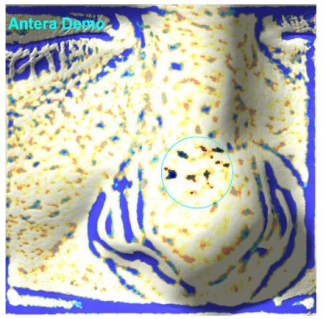
Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 128.5 mm²
diameter = 12.8 mm

Pores: Medium (0.1 - 1 mm)





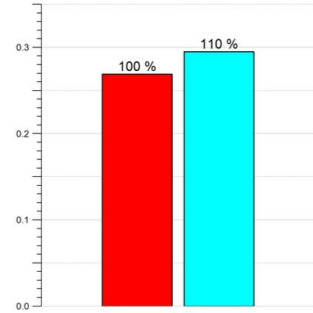
● **m36 n 9/23/2022**

- Volume = 0.269 mm³

● **m36 n 10/28/2022**

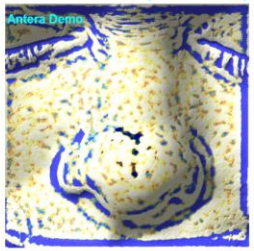
- Volume = 0.295 mm³

Volume of pores [mm³] under 1.0 mm of lateral size



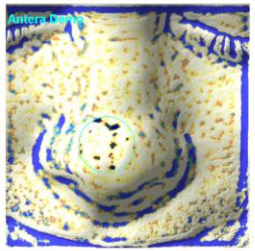
Pores average level and variation

Pores: Medium (0.1 - 1 mm)



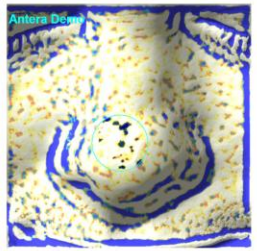
● m47 n 9/23/2022

- Volume = 0.556 mm³



● m47 n 10/7/2022

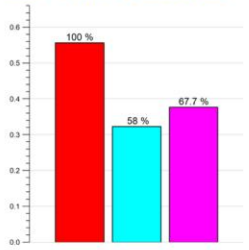
- Volume = 0.323 mm³



● m47 n 10/28/2022

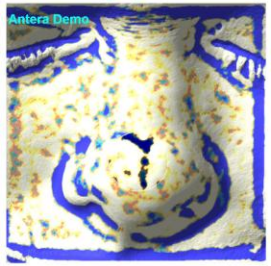
- Volume = 0.377 mm³

Volume of pores [mm³]
under 1.0 mm of lateral size



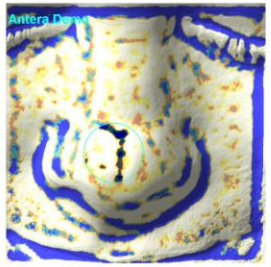
Circular selection:
area = 128.2 mm²
diameter = 12.8 mm

Pores: Large (0.1 - 1.5 mm)



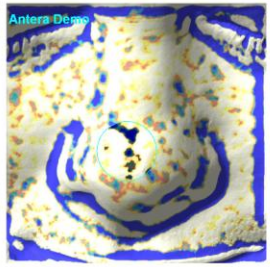
● m47 n 9/23/2022

- Volume = 1.46 mm³



● m47 n 10/7/2022

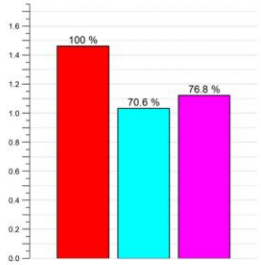
- Volume = 1.03 mm³



● m47 n 10/28/2022

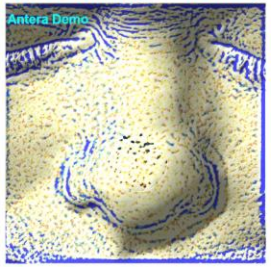
- Volume = 1.12 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size



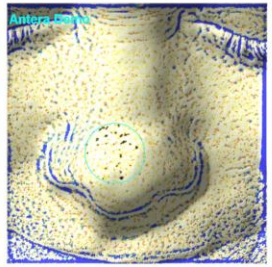
Circular selection:
area = 128.2 mm²
diameter = 12.8 mm

Pores: Small (0.1 - 0.5 mm)



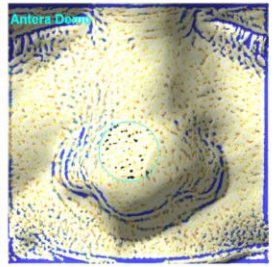
● m47 n 9/23/2022

- Volume = 0.118 mm³



● m47 n 10/7/2022

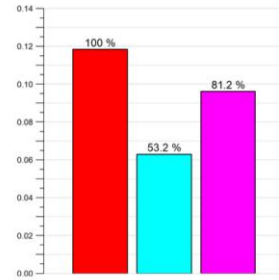
- Volume = 0.063 mm³



● m47 n 10/28/2022

- Volume = 0.096 mm³

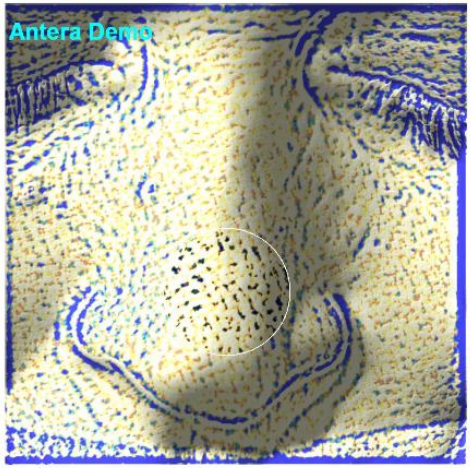
Volume of pores [mm³]
under 0.5 mm of lateral size

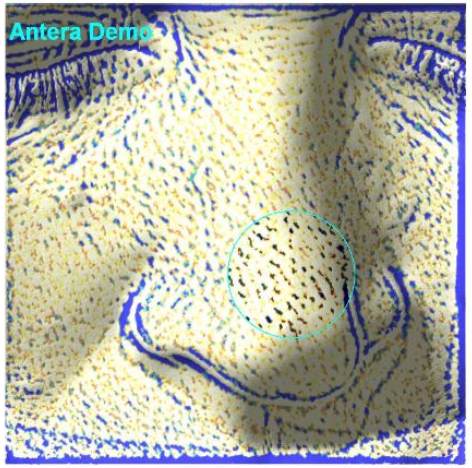


Circular selection:
area = 128.4 mm²
diameter = 12.8 mm

Pores average level and variation

Pores: Small (0.1 - 0.5 mm)





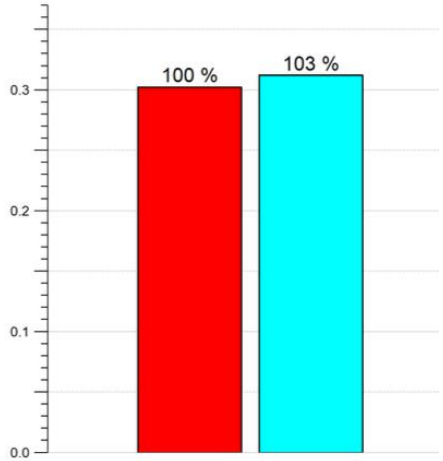
● m44 n 9/23/2022

- Volume = 0.302 mm³

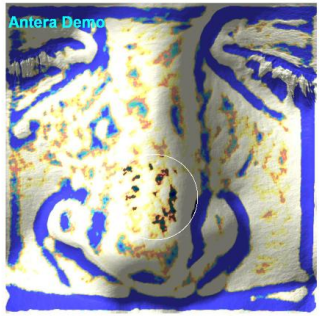
● m44 n 10/7/2022

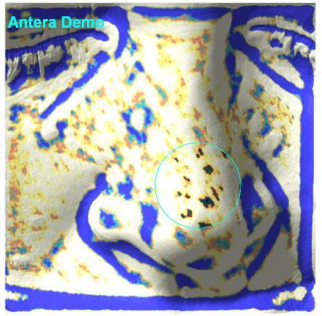
- Volume = 0.312 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Pores: Large (0.1 - 1.5 mm)





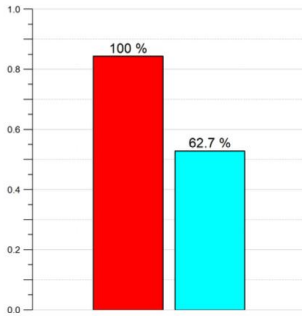
● m44 n 9/23/2022

- Volume = 0.844 mm³

● m44 n 10/7/2022

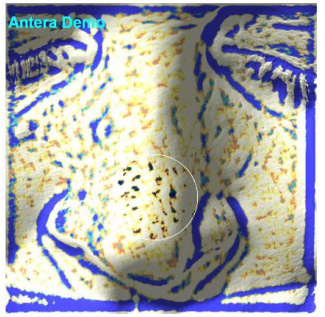
- Volume = 0.529 mm³

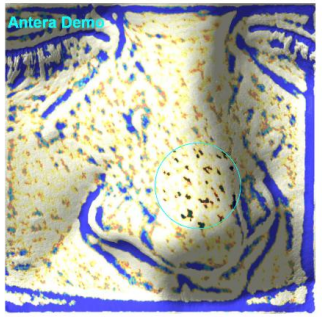
Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 185.1 mm²
diameter = 15.4 mm

Pores: Medium (0.1 - 1 mm)





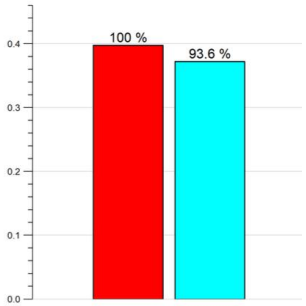
● m44 n 9/23/2022

- Volume = 0.398 mm³

● m44 n 10/7/2022

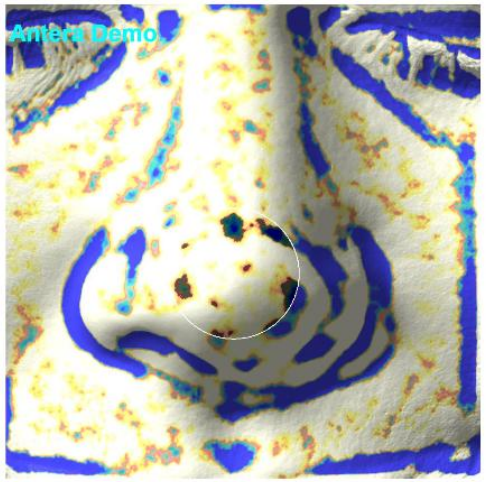
- Volume = 0.372 mm³

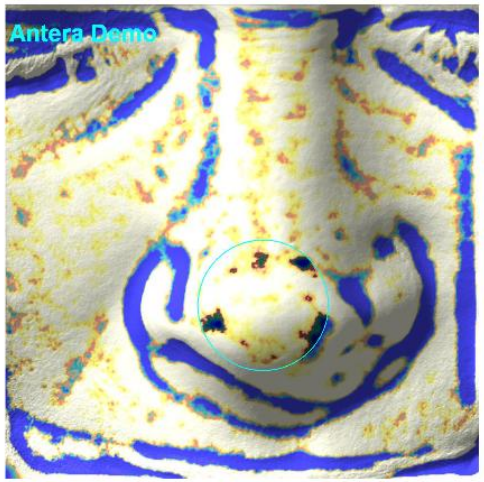
Volume of pores [mm³] under 1.0 mm of lateral size



Pores average level and variation

Pores: Large (0.1 - 1.5 mm)





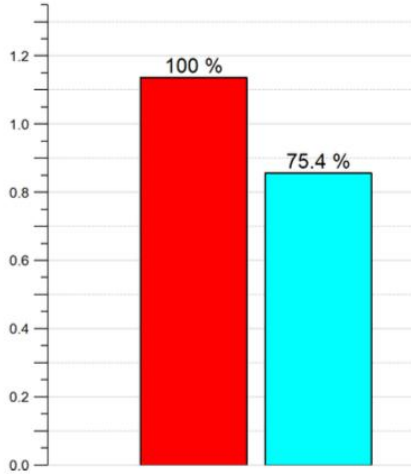
● **m36 n 9/23/2022**

- Volume = 1.14 mm³

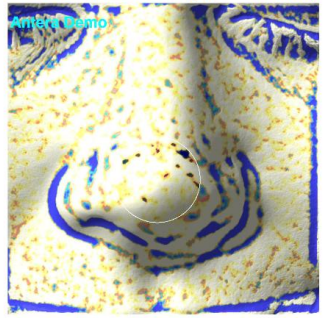
● **m36 n 10/7/2022**

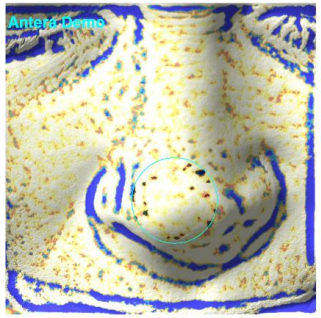
- Volume = 0.857 mm³

Volume of pores [mm³] under 1.5 mm of lateral siz



Pores: Medium (0.1 - 1 mm)





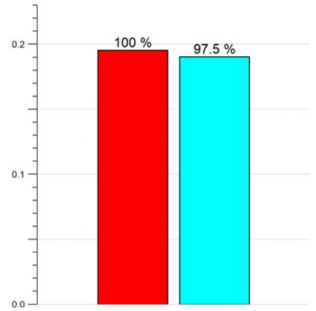
● **m36 n 9/23/2022**

- Volume = 0.195 mm³

● **m36 n 10/7/2022**

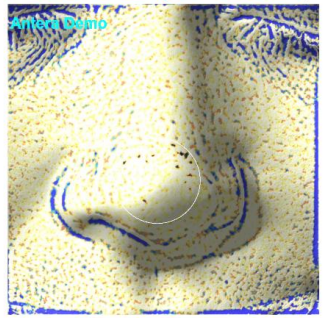
- Volume = 0.190 mm³

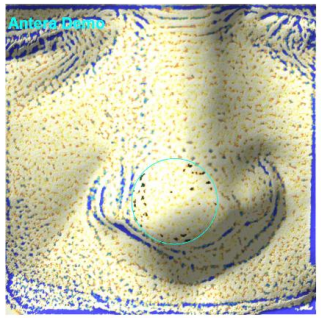
Volume of pores [mm³] under 1.0 mm of lateral size



Circular selection:
area = 185.0 mm²
diameter = 15.4 mm

Pores: Small (0.1 - 0.5 mm)





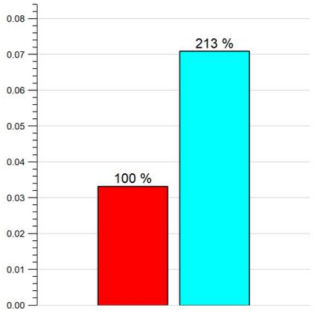
● **m36 n 9/23/2022**

- Volume = 0.033 mm³

● **m36 n 10/7/2022**

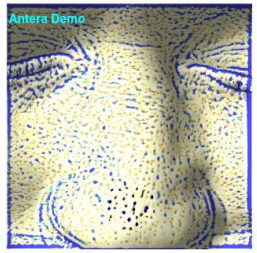
- Volume = 0.071 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



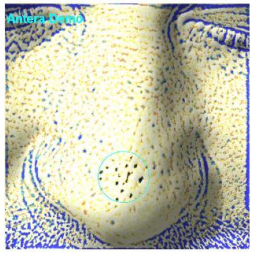
Pores average level and variation

Pores: Small (0.1 - 0.5 mm)



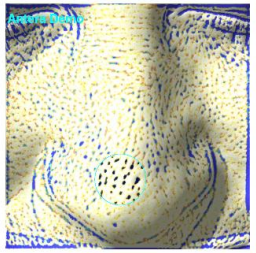
● v38 n 9/23/2022

- Volume = 0.215 mm³



● v38 n 10/7/2022

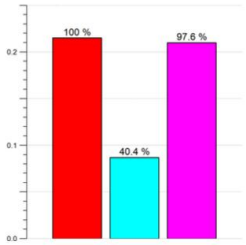
- Volume = 0.087 mm³



● v38 n 10/28/2022

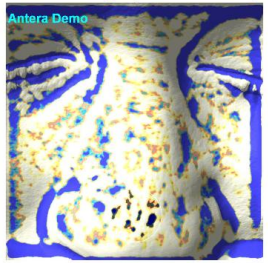
- Volume = 0.210 mm³

Volume of pores [mm³]
under 0.5 mm of lateral size



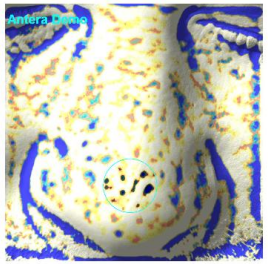
Circular selection:
area = 106.1 mm²
diameter = 11.7 mm

Pores: Large (0.1 - 1.5 mm)



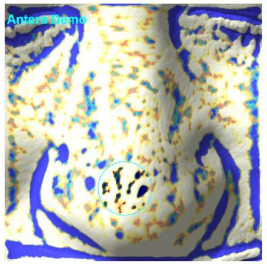
● v38 n 9/23/2022

- Volume = 0.820 mm³



● v38 n 10/7/2022

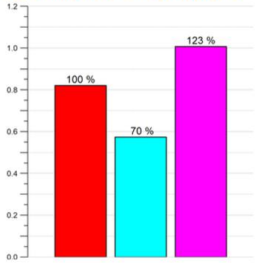
- Volume = 0.574 mm³



● v38 n 10/28/2022

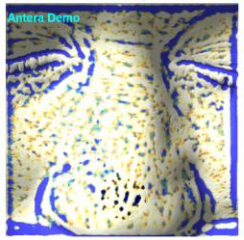
- Volume = 1.01 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size



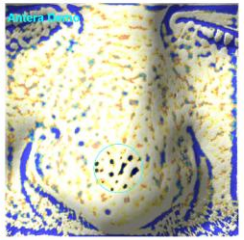
Circular selection:
area = 106.1 mm²
diameter = 11.7 mm

Pores: Medium (0.1 - 1 mm)



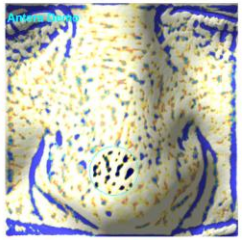
● v38 n 9/23/2022

- Volume = 0.629 mm³



● v38 n 10/7/2022

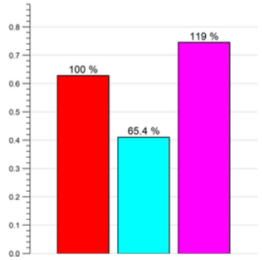
- Volume = 0.411 mm³



● v38 n 10/28/2022

- Volume = 0.746 mm³

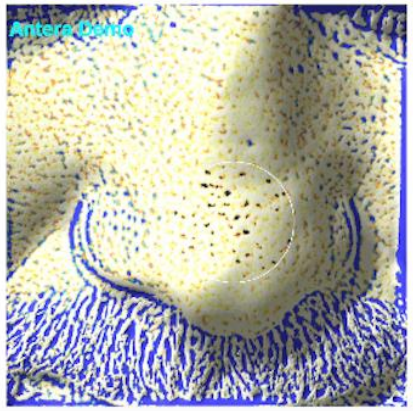
Volume of pores [mm³]
under 1.0 mm of lateral size

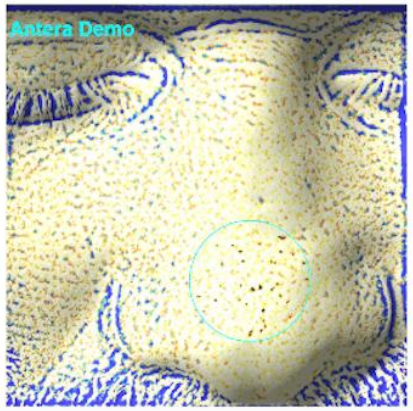


Circular selection:
area = 106.1 mm²
diameter = 11.7 mm

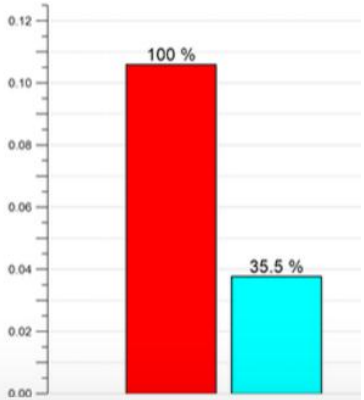
Pores average level and variation

Pores: Small (0.1 - 0.5 mm)



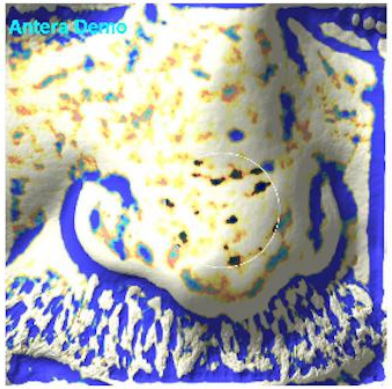


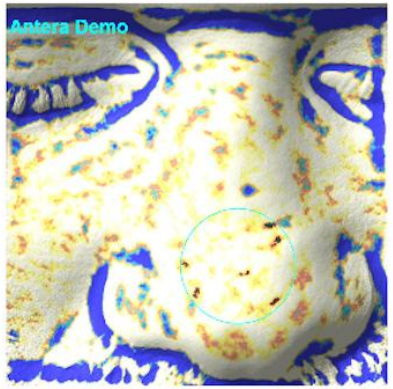
Volume of pores [mm³] under 0.5 mm of lateral size



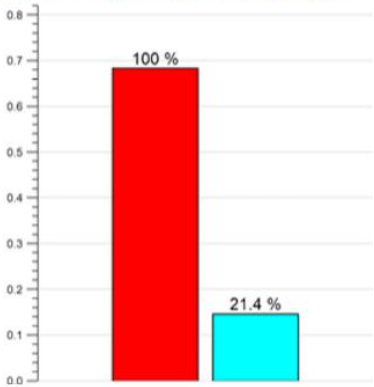
● v40 n 9/23/2022 ● v40 n 10/7/2022

Pores: Large (0.1 - 1.5 mm)





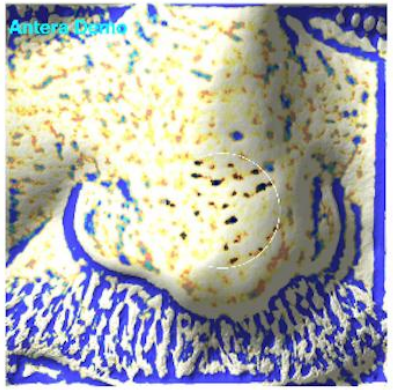
Volume of pores [mm³] under 1.5 mm of lateral size

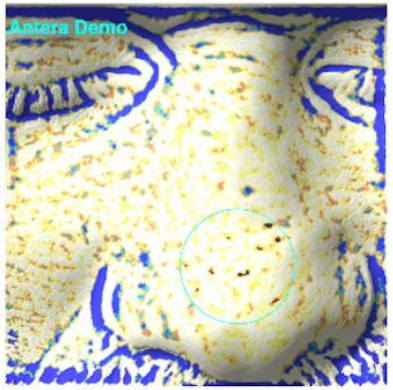


● v40 n 9/23/2022 ● v40 n 10/7/2022

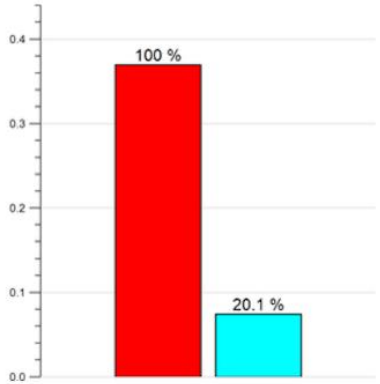
- Volume = 0.683 mm³ - Volume = 0.146 mm³

Pores: Medium (0.1 - 1 mm)





Volume of pores [mm³] under 1.0 mm of lateral size



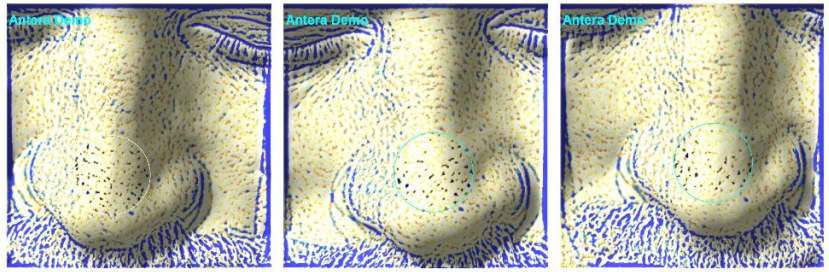
● v40 n 9/23/2022 ● v40 n 10/7/2022

- Volume = 0.370 mm³ - Volume = 0.074 mm³

Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

Pores average level and variation

Pores: Small (0.1 - 0.5 mm)

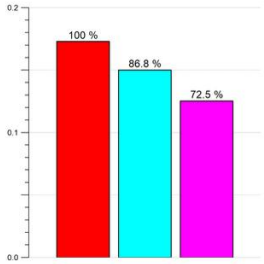


● v33 n 9/23/2022 - Volume = 0.173 mm³

● v33 n 10/7/2022 - Volume = 0.150 mm³

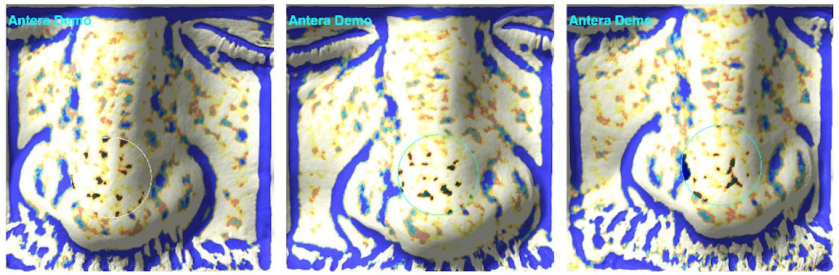
● v33 n 10/28/2022 - Volume = 0.125 mm³

Volume of pores [mm³] under 0.5 mm of lateral size



Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

Pores: Large (0.1 - 1.5 mm)

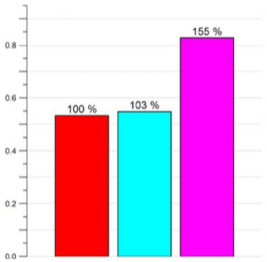


● v33 n 9/23/2022 - Volume = 0.533 mm³

● v33 n 10/7/2022 - Volume = 0.548 mm³

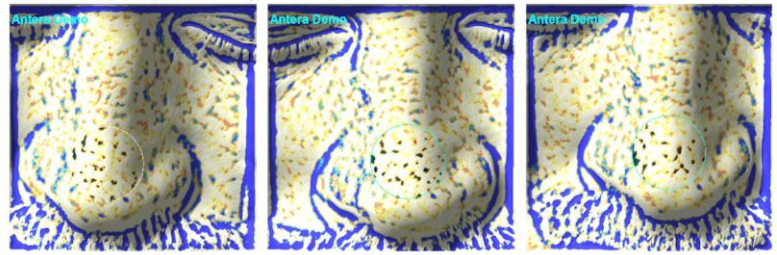
● v33 n 10/28/2022 - Volume = 0.828 mm³

Volume of pores [mm³] under 1.5 mm of lateral size



Circular selection:
area = 128.2 mm²
diameter = 12.8 mm

Pores: Medium (0.1 - 1 mm)

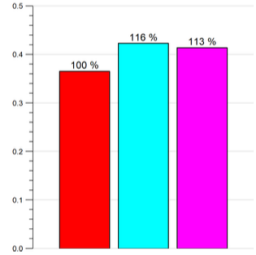


● v33 n 9/23/2022 - Volume = 0.366 mm³

● v33 n 10/7/2022 - Volume = 0.423 mm³

● v33 n 10/28/2022 - Volume = 0.414 mm³

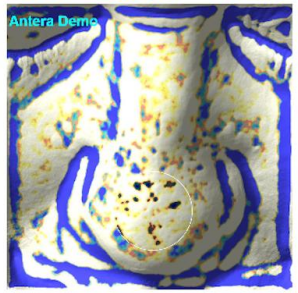
Volume of pores [mm³] under 1.0 mm of lateral size



Circular selection:
area = 220.5 mm²
diameter = 16.8 mm

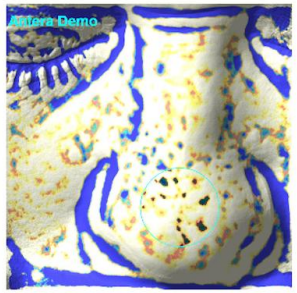
Pores average level and variation

Pores: Large (0.1 - 1.5 mm)



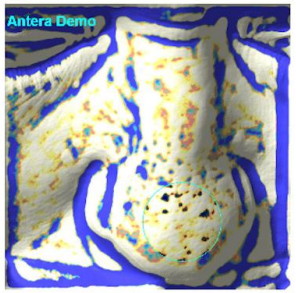
● m67 n 9/23/2022

- Volume = 0.660 mm³



● m67 n 10/7/2022

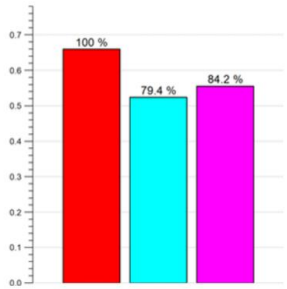
- Volume = 0.524 mm³



● m67 n 10/28/2022

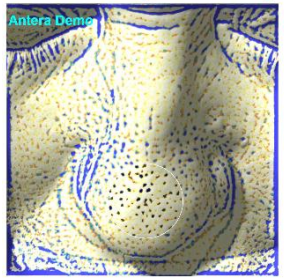
- Volume = 0.556 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size



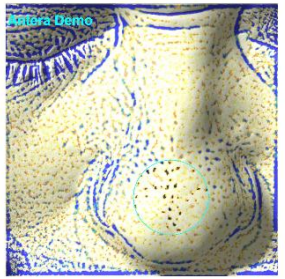
Circular selection:
area = 185.1 mm²
diameter = 15.4 mm

Pores: Small (0.1 - 0.5 mm)



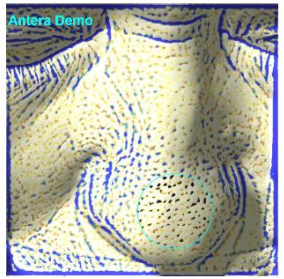
● m67 n 9/23/2022

- Volume = 0.220 mm³



● m67 n 10/7/2022

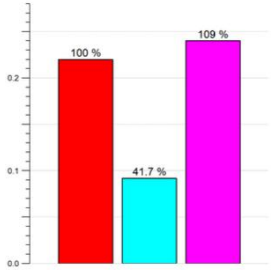
- Volume = 0.092 mm³



● m67 n 10/28/2022

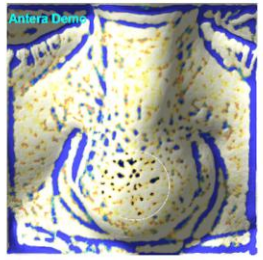
- Volume = 0.240 mm³

Volume of pores [mm³]
under 0.5 mm of lateral size



Circular selection:
area = 185.1 mm²
diameter = 15.4 mm

Pores: Medium (0.1 - 1 mm)

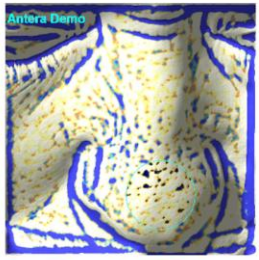


● m67 n 9/23/2022

- Volume = 0.438 mm³

● m67 n 10/7/2022

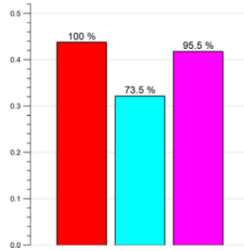
- Volume = 0.322 mm³



● m67 n 10/28/2022

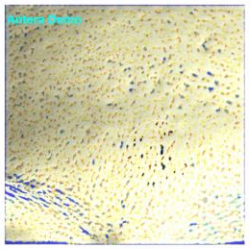
- Volume = 0.418 mm³

Volume of pores [mm³]
under 1.0 mm of lateral size



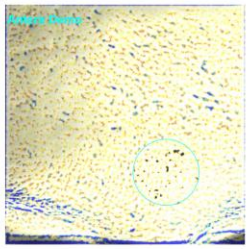
Circular selection:
area = 185.1 mm²
diameter = 15.4 mm

Pores average level and variation



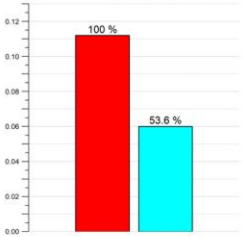
● m18 kc 2022-9-23.an-img 9/23/2022 17:56 ● m18 kc 2022-10-28.an-img 10/28/2022 19:24

- Volume = 0.112 mm³

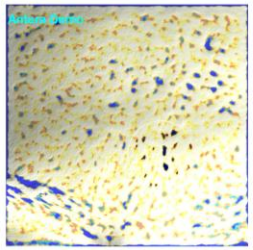


- Volume = 0.060 mm³

Volume of pores [mm³]
under 0.5 mm of lateral size

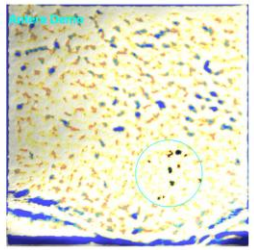


Circular selection:
area = 185.2 mm²
diameter = 15.4 mm



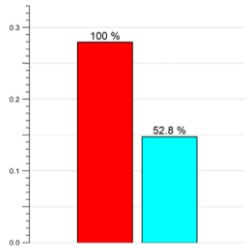
● m18 kc 2022-9-23.an-img 9/23/2022 17:56 ● m18 kc 2022-10-28.an-img 10/28/2022 19:24

- Volume = 0.280 mm³

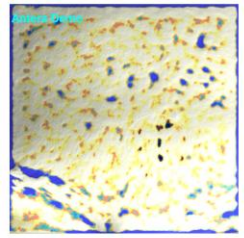


- Volume = 0.148 mm³

Volume of pores [mm³]
under 1.0 mm of lateral size

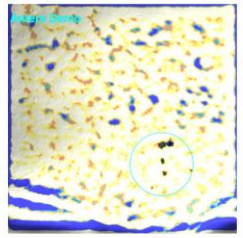


Circular selection:
area = 185.2 mm²
diameter = 15.4 mm



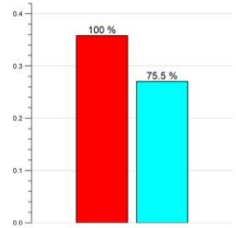
● m18 kc 2022-9-23.an-img 9/23/2022 17:56 ● m18 kc 2022-10-28.an-img 10/28/2022 19:24

- Volume = 0.358 mm³



- Volume = 0.270 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size



Circular selection:
area = 185.2 mm²
diameter = 15.4 mm

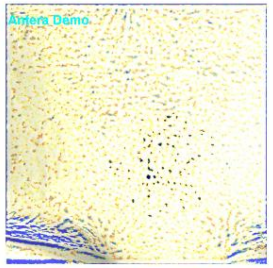
Pores average level and variation

m16 kc 2022-9-23.an-img 9/23/2022 17:19

m16 kc 2022-10-7.an-img 10/7/2022 18:43

16

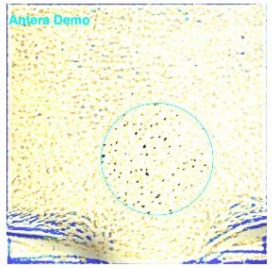
m16 kc 2022-10-28.an-img 10/28/2022 19:38



● m16 kc 2022-9-23.an-img 9/23/2022 17:19

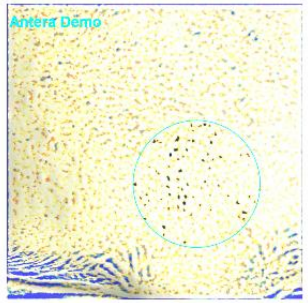
- Volume = 0.162 mm³

16



● m16 kc 2022-10-7.an-img 10/7/2022 18:43

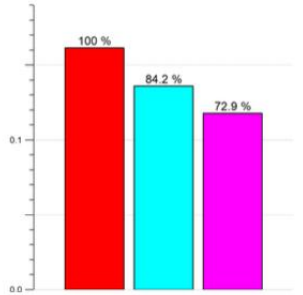
- Volume = 0.136 mm³



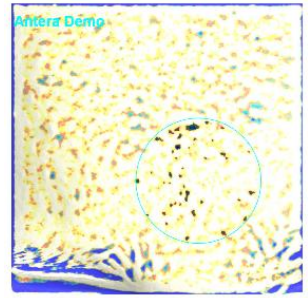
● m16 kc 2022-10-28.an-img 10/28/2022 19:38

- Volume = 0.118 mm³

Volume of pores [mm³]
under 0.5 mm of lateral size



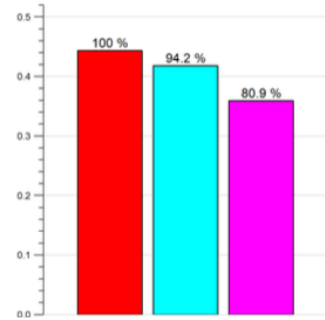
Circular selection:
area = 451.9 mm²
diameter = 24.0 mm

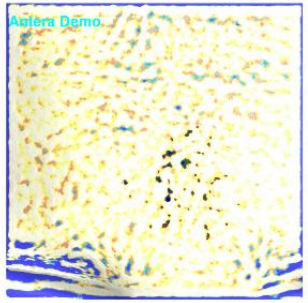


● m16 kc 2022-10-28.an-img 10/28/2022 19:38

- Volume = 0.359 mm³

Volume of pores [mm³]
under 1.0 mm of lateral size

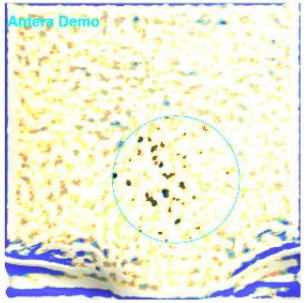




● m16 kc 2022-9-23.an-img 9/23/2022 17:19

- Volume = 0.443 mm³

16



● m16 kc 2022-10-7.an-img 10/7/2022 18:43

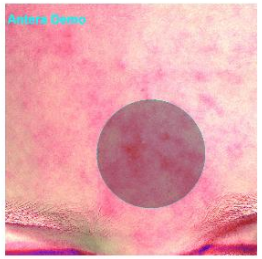
- Volume = 0.418 mm³

Pores average level and variation

● m16 kc 2022-9-23.an-img 9/23/2022 17:19

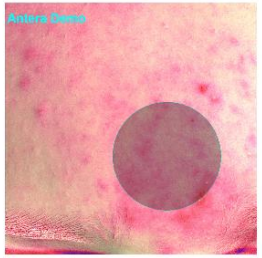
- Average level = 1.393
- Variation = 0.128

16



● m16 kc 2022-10-7.an-img 10/7/2022 18:43

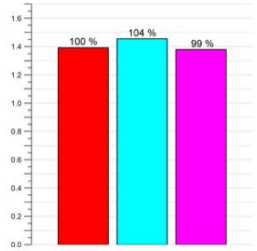
- Average level = 1.455
- Variation = 0.11



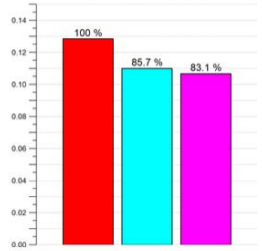
● m16 kc 2022-10-28.an-img 10/28/2022 19:38

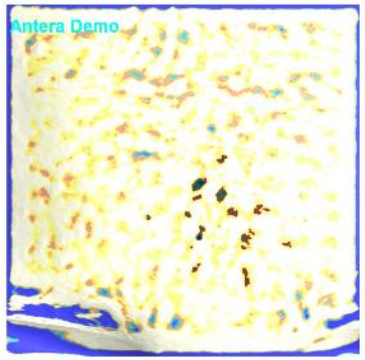
- Average level = 1.379
- Variation = 0.107

Haemoglobin average level



Haemoglobin variation

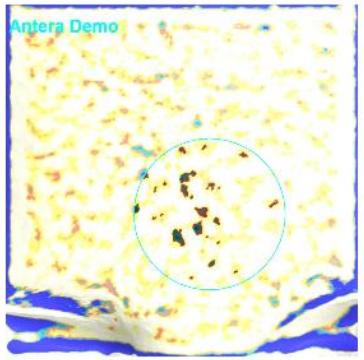




● m16 kc 2022-9-23.an-img 9/23/2022 17:19

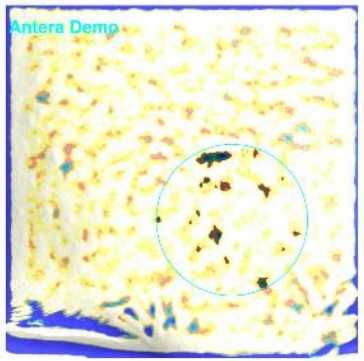
- Volume = 0.761 mm³

16



● m16 kc 2022-10-7.an-img 10/7/2022 18:43

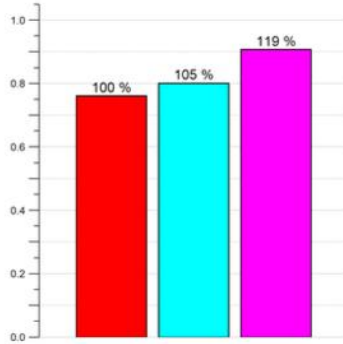
- Volume = 0.801 mm³



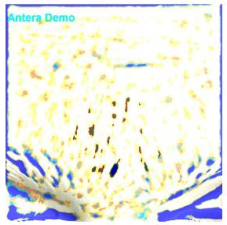
● m16 kc 2022-10-28.an-img 10/28/2022 19:38

- Volume = 0.907 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size

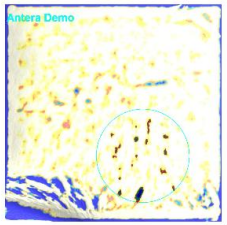


Pores average level and variation



● m36 kc 2022-9-23.an-img 9/23/2022 17:48

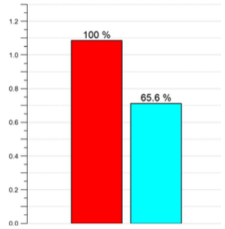
- Volume = 1.09 mm³



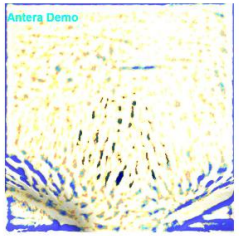
● m36 kc 2022-10-28.an-img 10/28/2022 17:35

- Volume = 0.713 mm³

Volume of pores [mm³]
under 1.5 mm of lateral size

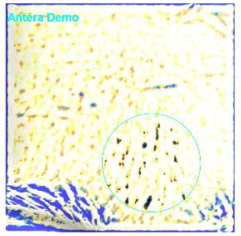


Circular selection:
area = 451.9 mm²
diameter = 24.0 mm



● m36 kc 2022-9-23.an-img 9/23/2022 17:48

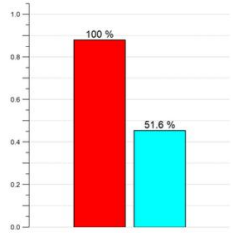
- Volume = 0.880 mm³



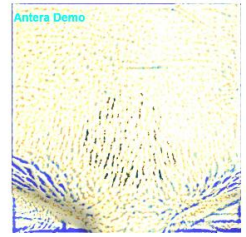
● m36 kc 2022-10-28.an-img 10/28/2022 17:35

- Volume = 0.454 mm³

Volume of pores [mm³]
under 1.0 mm of lateral size

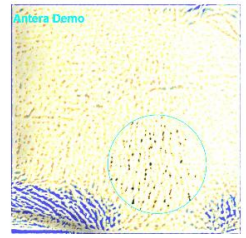


Circular selection:
area = 452.0 mm²
diameter = 24.0 mm



● m36 kc 2022-9-23.an-img 9/23/2022 17:48

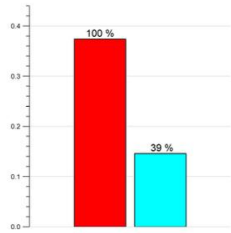
- Volume = 0.374 mm³



● m36 kc 2022-10-28.an-img 10/28/2022 17:35

- Volume = 0.146 mm³

Volume of pores [mm³]
under 0.5 mm of lateral size



Circular selection:
area = 451.9 mm²
diameter = 24.0 mm