# Particulate Contamination as per ISO 4406 - 4407 (2002)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Date:** | 2026-May-14, 8:26:47 AM GMT-04:00 | | **Covered area:** | 28.28 | $mm^2$ | **Magnification:** | 100X |
| **Analyst:** | Clemex Support (2026-Ma …) | | **Covered ratio:** | 0.02 | | **Calibration:** | 1.0000 µm/pixel |
| **Sample ID:** | 01 | | **Effective filtration diameter:** | 38 | mm | **Units:** | Microns |
| **Pore size:** | 1.0 | mic. | **Effective filtration area:** | 1134.11 | $mm^2$ | **# Fields:** | 16 |
| **Sample volume:** | 100 | ml | **Illumination type:** | incident | | | |

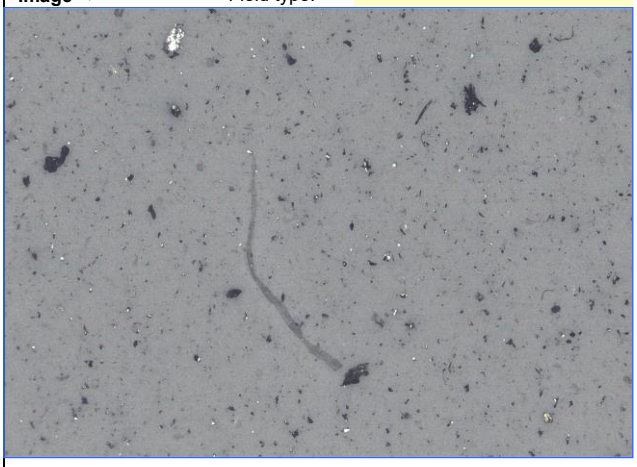
**Particle count data and Scale number**

| **Size range (mic)** | 4 and over | 6 and over | 14 and over | **Fibers[c] Count** |
|---|---|---|---|---|
| | | | | 4 |
| Blank count (can be filled in manually or linked to an exported Vision file) | | | | **Total** |
| **Particle counts** | 20104 | 14587 | 3617 | 38308 |
| **Estimated particles for the whole filter** | 806104.5 | 584890.9 | 145029.8 | ####### |
| **Particle count per 001 ml** | 8061.0 | 5848.9 | 1450.3 | 15360.3 |
| **Scale number (per ml)** | 20 | 20 | 18 | 21 |

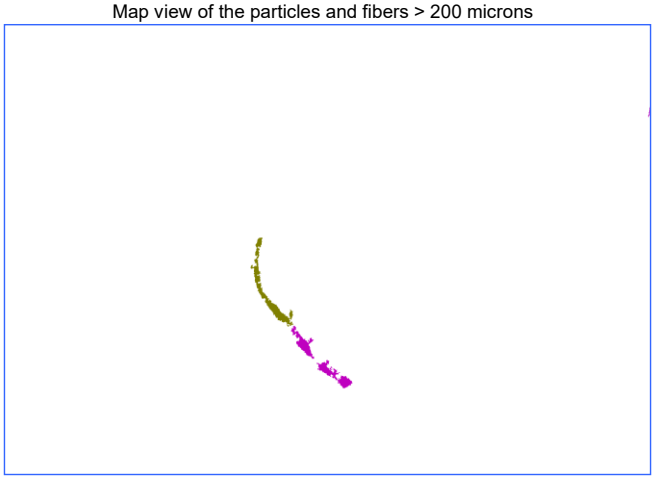
**Final classification** 20/20/18

**Largest particle =>** **Maximum dimension:** 288.75 Microns **Nature:** Fiber

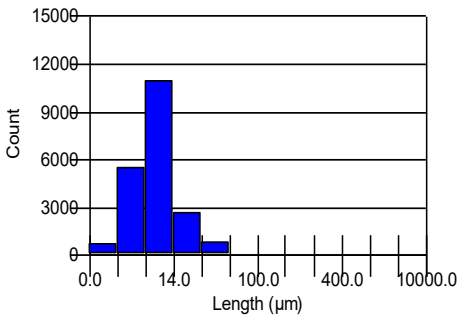
**Image =>** Field type: ? Select



Map view of the particles and fibers > 200 microns



Distribution of particles per category




**Remarks / Comments:**

a) ISO 4406 starts at 5 mic. Work with a 2x coupler if more resolution is needed.

b) At 55x, measurements over 200 microns are based on Tiled features, so the precision decreases. If a better precision is needed on largest particles, use the routine for 16x instead.

c) ISO 4406 identifies fibers as features longer than 100mic. with a Length / Width ratio greater than 10. The Vision routine is based on String Length / String Width ratio. This can be modified in the routine if desired. If so, please change this comment accordingly.