

Standard slide

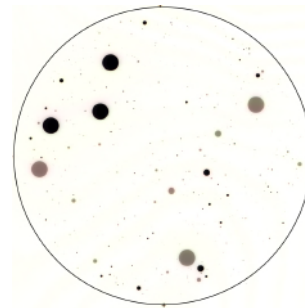
Reference : MEFTX



Standard slide

- The MEFTX standard slide is a numbered test chart generated by photolithography.
- The standard slide is engraved onto an opaline plate measuring 75 mm x 50 mm x 1.5 mm.
- 2050 particles and fibers (from 10 μm to 2 mm) are distributed randomly over a diameter of 37 mm, with a tolerance of ± 3 microns per particle.
- The circle is defined by 4 points.
- A transparent deposit of alumina protects the standard slide.

Composition of the standard slide

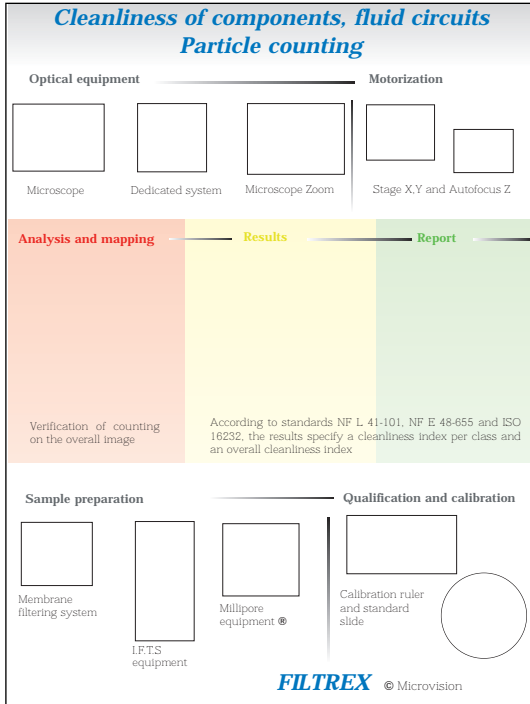


Two densities : D 4 - T 0.01 % - D 0.3 - T 50 %

CIRCLES D4, D0,3	No
10 μm	1000
20 μm	500
37 μm	250
75 μm	150
125 μm	64
175 μm	32
300 μm	16
500 μm	8
800 μm	4
2000 μm	6
TOTAL	2030

Fibers D4, D0,3	No
350 μm	10
350 μm	10
TOTAL	20

Standard slide



Analyzing the test chart using the Filtrex software package

Filtrex, coupled with a motorized microscope, a digital camera and a 5 x lens, counts the test chart in 20 minutes (Resolution: 1. 4 microns per pixel, 450 images).

The following report is an example of a standard slide analysis. Objects intersecting several fields are automatically reconstructed. The results are presented according to standard ISO 16232.

Filtrex™ : Standard Slide - 5um and greater

Study features

Reference: Standard Slide - 5um and greater
Control: Stephen McJonathan
Operator: Stephen McJonathan
Notes:
Sampled on: 9/22/2006 19:21
Study file: 9/22/2006
Date of study: 9/22/2006
Filtered volume: 200 ml (reported to 200 ml)
Scanning diameter: 36.0 mm

Informations

Operation settings

Calibration factor: 1.381 m/pixel
Objects overlapping fields: Rebuilding
Fibers minimal length: 100.0 m
Fibers ratio length/width: 3.00
Channel # 1 - Thresholding: Fixed (from 0 to 200)
Channel # 1 - Filtering: None
Channel # 1 - Criteria: Length >= 5.00 m
Channel # 2 - Thresholding: Adaptive (dark: 12.4 m: 19)
Channel # 2 - Filtering: None
Channel # 2 - Criteria: Length >= 5.00 m

Count table

ISO 16232			
Class	Absolute counting	Relative counting	Contamination level
5 m - 15 m (B)	1048	1048	11
15 m - 25 m (C)	509	509	10
25 m - 50 m (D)	253	253	9
50 m - 100 m (E)	152	152	8
100 m - 150 m (F)	64	64	6
150 m - 200 m (G)	32	32	5
200 m - 400 m (H)	16	16	4
400 m - 600 m (I)	8	8	3
600 m - 1000 m (J)	4	4	2
>= 1000 m (K)	6	6	3

CCC: A(B11/C10/D9/E8/F6/G5/H4/I3/J2/K3)

Fibers: 20

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Filtrex™ : Standard Slide - 5um and greater

Statistics

	Particles	Fibers
Population	2092	20
Average	38.2 m	386 m
Standard deviation	121 m	12.1 m
Minimum	5.14 m	368 m
Maximum	2011 m	405 m
Quadratics average	127 m	386 m

Overview

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