		Product Standard Opaque Fused Quartz Cylinder ilmasil® PO-0		
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ilmasil® PO-0 is an electrically fused opaque quartz, manufactured by fusing high purity quartz sand using QSIL's propriety plasma melting process.

Application: This criteria is applicable to cylinder produced with **ilmasil® PO-0** opaque fused quartz material

1 Visual Characteristic

This specification applies to the specified bulk. All products are inspected visually at a distance of 0.3 – 0.6 meter from the inspector, under controlled illumination conditions. For opaque fused quartz cylinders, only inspection of visible glass surfaces is possible.

1.1. Opacity / Bubbles

The opacity of the electrically fused quartz **ilmasil PO-0** is achieved by controlled distribution of fine microbubbles. There are no chemical additives used to achieve opacity.

Limit: no limit specified

1.2 Inclusions

Definition: Foreign particles found within the glass, causing visible discoloration


Limit:

Inclusions diameter in mm	Max. Number per 1000 cm ³
<1 mm	no limit specified
>1 – 5 mm	15
>5 mm	not permitted

1.3 Inhomogeneities

Definition: a visual difference in opacity

Limit: not specified

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2 Dimensional Characteristics

2.1 Outer diameter (OD)

Definition: all outer diameter values of the cross sectional plane along the entire length of the cylinder

Limit: specified outer diameter range

2.2 Inside Diameter (ID)

Definition: all inner diameter values of the cross sectional plane along the entire length of the cylinder

Limit: specified inner diameter range

2.3 Length (L)

Definition: Distance of the finished cylinder from end to end

Limit: specified length range

3 Surface Characteristics

Outer surface: Ground
Roughness Limit: not specified

Inner surface: typically firepolished or surface may be ground at manufacturer's discretion

Roughness Limit: not specified

4 Further applicable documents

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