

SPECIFICATION

Drawing No Rev. Group

> Sheet 1 of 1

100 mm Crystalline coating demonstration polish specification

			APPROVALS		
AUTHOR:	CHECKED:	DATE	DCN NO.	REV	DATE
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Physical Configuration per D1800154-v2

 100 ± 0.3 mm diameter right circular cylinder 10 ± 0.5 mm thick Bevel for safety Wedge between 10 ± 5 arcmin Material: Fused silica; Heraeus 311, 312, 313 or 3001 Registration mark: Arrow at minimum thickness. Chemical or laser etched, ground or sandblasted Serial number "E1800006-xx" Chemical or laser etched, ground or sandblasted. Number sequentially.

Surfaces, Sides and Bevel Polish

All Surfaces, Sides and Bevels shall be polished using a progression of smaller grit sizes. The last step before final polish shall be equal to or less than a five micrometer grit finish. These surfaces shall appear transparent with no grey, scuffs or scratches visible to the naked eye when viewed in normal room light against a black background.

Scratches, Sleeks and Point defects according to MIL-PRF-13830B

Surface 1: 10/5 Surface 2: 60/40

Figure, measured over the central 95 mm diameter

Surface 1 and 2: Nominally flat. PVr < 100 nm

Error, High Spatial Frequency

< 1 Å rms