

Davidson D-667 Viewing Fixture



Features:

- Multiple illumination modes for inspecting to MIL-PRF-13830B
 - Transmitted methods 1 and 2
 - Reflected method Appendix C
- Complies with photometric specifications defined in ANSI/OEOSC OP1.002 and ISO 14997
- Overall size (H x D x W): 20 x 19 x 20 inch (508 x 483 x 508 mm)
- Weight: 30 lbs (17 kg)

TRIOPTICS USA

9087 Arrow Route Unit 180
Rancho Cucamonga, CA 91730
626 962 5181

sales@trioptics-usa.com www.trioptics-usa.com

Use of samples:

Designation of defect visibility. Limiting appearance of surface defects is designated on the applicable drawings by two numbers which refer to the graded sets of surface quality standards, e.g. 80-50. The first number refers to scratches and the second number refers to digs.

Scratches: Any marking or tearing of the surface. Scratch types are identified as follows:

Digs: Small rough spots on the polished surface, similar to pits in appearance, generally caused by mishandling.

Bubbles: Internal inclusions in the glass are classified as digs and are added to the other surface defects.

Digs: Small rough spots on the polished surface, similar to pits in appearance, generally caused by mishandling.

Bubbles: Internal inclusions in the glass are classified as digs and are added to the other surface

When using the D-667-11 Viewing Fixture:

Transmitted Inspection Method #1 (MIL-PRF-13830B Section 4.2.2.1)

The element to be inspected and the applicable sample are viewed against a ground glass or opal surface illuminated from behind by a 40 watt lamp approximately 3 inches (76 mm) from the surface under examination.

Transmitted Inspection Method #2 (MIL-PRF-13830B Section 4.2.2.2)

The light through ground glass from a 40 watt bulb shall be passed through the element and sample. Defects are observed by light scattered from the surface while viewing it at approximately 90° to the path of the beam against a dark background.

Reflected Method (MIL-PRF-13830B Appendix C)

The element to be inspected and the applicable sample are viewed against a matt black background, illuminated from above with two, 15-watt cool white fluorescent bulbs. The viewing distance shall not exceed 18 inches (45.7cm).

We also offer the Davidson D-667 and D-668 Scratch & Dig Comparison Sets. Visit our website for more information.

TRIOPTICS USA

9087 Arrow Route Unit 180
Rancho Cucamonga, CA 91730
626 962 5181

sales@trioptics-usa.com www.trioptics-usa.com

A member of the JENOPTIK Group