

## D-667

# Scratch & Dig Comparison Set

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The Davidson D-667 is manufactured and tested in accordance with military drawing C1646866 Rev H, enabling easy surface quality inspection and characterization of optical components based on ANSI IOEOSC OPI.002 and the new ISO 10110-7 Visibility Method outlined in Rev H Comparison.

The Davidson D-667 sample scratches and digs are visually verified for visibility and appearance using the TRIOPTICS USA master D667 set manufactured to the Rev H drawing. While the master set adheres to the Rev H standard, indicating scratch width in microns, the individual sets are visually inspected to ensure they have the same brightness and appearance as the Rev H master set. This allows them to be used for scratch and dig visibility inspections. While the individual scratches have the same appearance as those of the Rev H master set (within manufacturing tolerances), the individual scratch widths may vary.

### Standards supported:

- Manufactured and tested in accordance with military drawing C1646866 Rev H
- ISO 10110-7 visibility method per Rev H comparison
- Scratch master set retained at TRIOPTICS; Digs are NIST traceable
- MIL Standard 45662A

### TRIOPTICS USA

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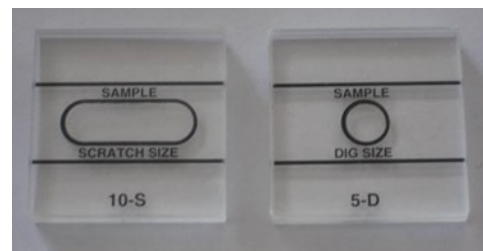
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The Individual scratch and dig samples are hermetically sealed and can be purchased separately. Their convenient size (1 1/2" x 1 1/2" x 1/4"), allows much easier direct comparison for go/no-go decisions during the inspection process of optical components such as lenses, prisms, reticles, windows and wedges.

## Each set consists of:

- Ten individual samples
- Scratch values (#80, #60, #40, #20 and #10)
- Dig values (#50, #40, #20, #10, and #5) are in units of tens of microns.
- Certificate of Calibration
- Molded plastic case



## Cleaning

Scratch-Dig samples should be treated like any precision optical component and cleaned using a methanol drag wipe or similar cleaning procedure. Avoid the use of chemical solvents or acetone to prevent damage to the sample seal.

## Re-certification

The D-667 comparison samples are made to last, but brightness is highly dependent on a host of factors, and the samples do age over time. We recommend you recertify your comparison samples at least once every two years.

**We also offer the Davidson D-667-11P Viewing Fixture and the D-668 Scratch & Dig Comparison Sets. Visit our website for more information.**

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