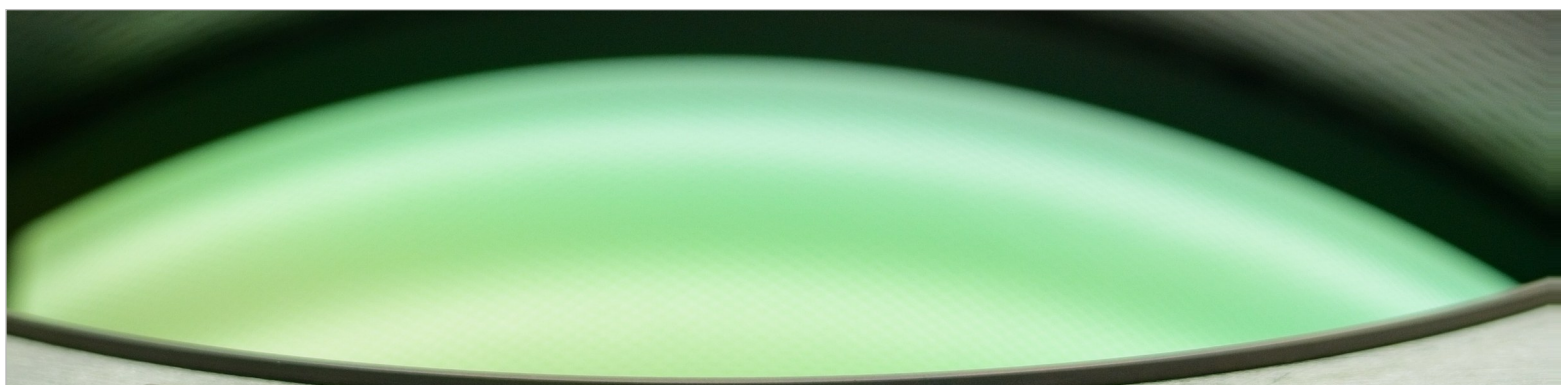


Optical Coating Specification

DIALON™

Transmission/Reflection Performance charts
G5 specification # 60 102



Specifications

Coating Specifications

Source Date	3/27/2023
Specification / Coating P/N	G5 Infrared Specification # 60 102
Coating Description	F-DLC on Silicon 3.0 – 5.0µm Exterior Protective Coating
AOI	0-20 degree
Witness Configuration	For 1mm thick Si witness piece coated with G5 # 60 102
Transmission Requirement	3.0 – 5.0µm > 93% Average
Thorium Status	Thorium Free

Environmental Qualification

Adhesion	Per MIL-C-48497A para 4.5.3.1
Abrasion	Per Mil-C-48497A para 4.5.5.1
Humidity	Per Mil-C-48497A para 4.5.3.2 24 hours
Solubility	Per Mil-C-48497A para 4.5.5.2
Salt spray	Per Mil-C-675C Para 4.5.9 for a period of 24 hours
Temperature cycle	Per MIL-C-48497A para 4.5.4.1
Windscreen	Coating shall survive 5000 revolutions of a wiper blade in a sand slurry under 40g load.

Notes

Notes	Self Cleaning - Superhydrophobic surfaces have excellent self-cleaning properties. The non-wettable surface causes water to bead up and roll off the surface, trapping and removing contaminants. Eliminating the need for a WIPER in most applications. Increased durability in Wet Wear applications - Due to the decreased wettability, one can expect F-DLC coatings to have better performance in wet abrasion tests such as wiper blade/sand slurry.
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