

# iDLC, Durable Coating

## 8μm-12μm

UCS\_GASIR5\_05

**Productnumber:** 2Gas500005

This coating offers exceptional abrasion resistance when deposited onto Umicore's GASIR5® substrate in the pass band 8-12μm. It is a rugged coating that can withstand severe abrasion. It complies with the environmental specifications of DLC type coatings on Germanium, while offering comparable transmission and lower reflection values. This coating is applied to the outside surface of a lens or window and is normally used with the high efficiency UCS\_GASIR5\_01 on the second side.



## Spectral - additional

Transmission (Average)	>90% 8μm-12μm, >85% 8μm-14μm	For a 2 mm thick witness piece, coated one face iDLC UCS_GASIR5_05 and one face UCS_GASIR5_01.
Reflection (Average)	<1.5% 8μm-12μm, <4.0% 8μm-14μm	Per surface, for a 2mm thick witness piece, coated one side UCS_GASIR5_05.
AOI	0°	

## Environmental Properties

Adhesion	MIL-C-48497A, 08/09/1980, para 4.5.3.1
Adhesion Remark	Tape Test
Humidity	MIL-C-48497A, 08/09/1980, para 4.5.3.2
Humidity Remark	72Hrs, 49°C, 95-100% relative humidity
Abrasion	MIL-C-48497A, 08/09/1980, para 4.5.5.1
Abrasion Remark	Severe, 20 Strokes Eraser
Salt spray	MIL-C-675C, 22/08/1980, para 4.5.9,
Salt spray Remark	7 days salt spray fog exposure

## Environmental - additional

Wiper Test	TS1888, 01/07/1979, para 5.4.3	10,000 wipes with windscreen
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