

DLC for IR Optics

Diamond Like Carbon Deposition



Advantages of DLC for Infrared Optics

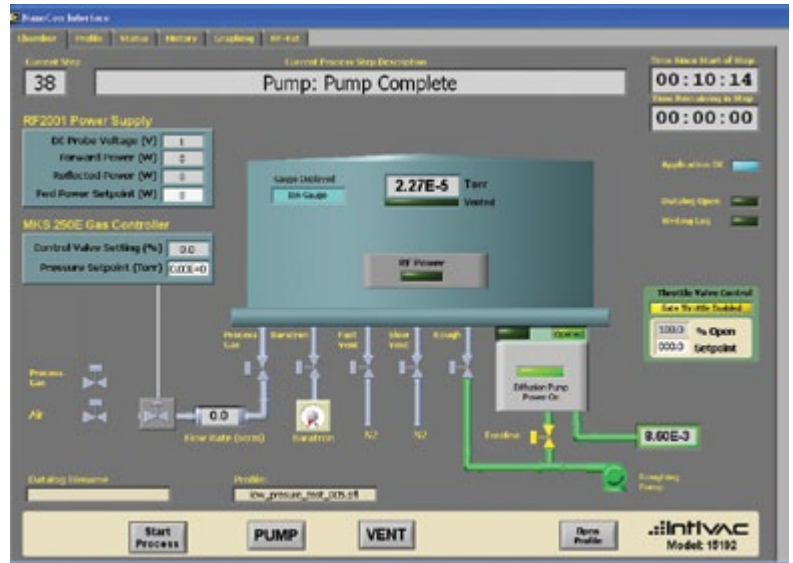
- High hardness
- Low Friction
- Electrical Insulation
- Resistance to Wear
- Chemical Inertness
- Good Thermal Conductivity
- Optical Transparency
- Biological Compatibility

diamond like carbon

INTLVAC DLC FOR INFRARED OPTICS

The Intlvac Thin Film DLC system is fully automated using INTLVAC's AUTOSYS Control System with touchscreen interface; the standard on all INTLVAC systems.

This software package provides a simple, yet comprehensive, graphical interface that allows you to easily view, edit, save, and upload an unlimited number of recipes. The complete history of your systems is recorded as well as individual runs in format ready to import to your favorite spreadsheet software for analysis.



Applications

Optics

DLC coating acts as a single-layer anti-reflection coating for high index substrates and it provides wear & chemical resistance for optical elements used in harsh environments.

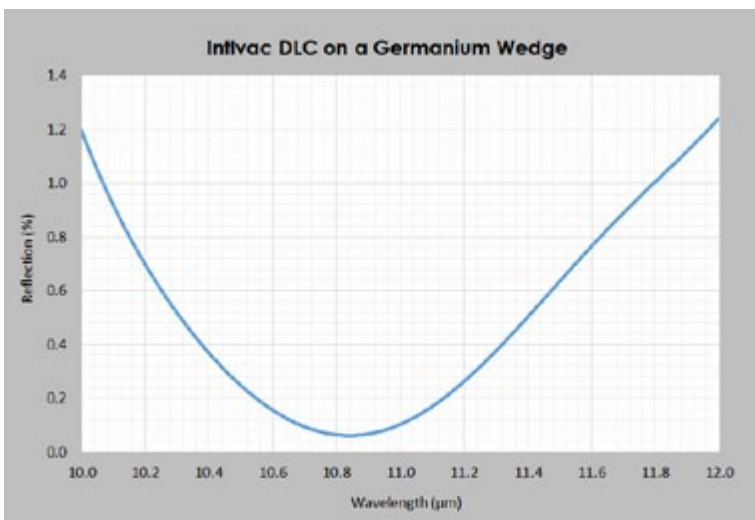
- *Intlvac Thin Film DLC conforms to TS1888 Wiper Test and all relevant MIL-C-48497A tests.*

Bio-engineering

DLC provides advantages of bio-compatibility, wear resistance, and diffusion resistance.

Mechanical Engineering

DLC provides wear & corrosion resistance, low friction, and good thermal conductivity.



DLC on wide variety of substrates that include:

IR Optics:

- Silicon, Germanium, Chalcogenides

Plastics:

- Ultem, Polycarbonate, Polyimide, PEEK

Glass:

- Crown Glass, UVFS, SF11, Sapphire

Metals:

- Aluminum, Copper, High-carbon Steel

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