

Front Surface Mirror - HR97

Glass Fabrication



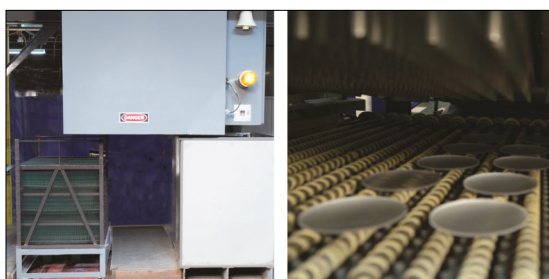
Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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Front Surface Mirror - HR97

HR-97 is the designation for a 97% reflectance front surface mirror.

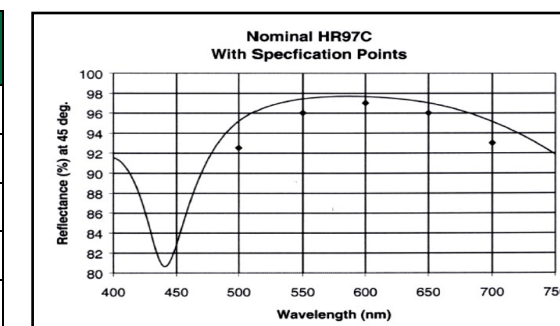
The following documents form a part of this specification to the extent specified herein:

- MIL-M-13508C - Mirror, Front Surfaced Aluminized;
- MIL-STD-810E - Environmental Test Methods
- MIL-C-48497A - Durability Requirements for Interference Coatings; Single or Multi-Layer
- OCLI 6600007H - Clear Float Glass Thickness 1.9mm - 10mm for Mirror and AR Coated Product

Coating Performance:

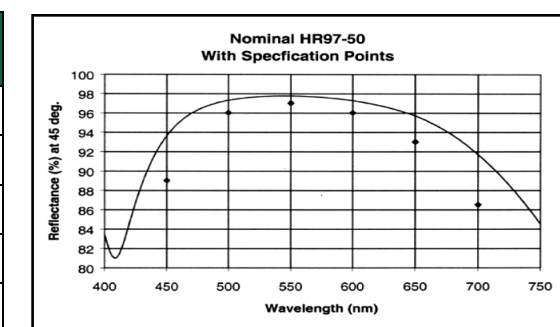
Spectral Reflectance HR-97-C (S&P) Avg

Wavelength (nm)	Maximum Reflectance (45°)	Typical Reflectance (45°)
500	92.5%	95.0%
550	96.0%	97.5%
600	97.0%	97.5%
650	96.0%	96.5%
700	93.0%	94.5%



Spectral Reflectance HR-97-50 (S&P) Avg

Wavelength (nm)	Maximum Reflectance (45°)	Typical Reflectance (45°)
450	89.0%	94.0%
500	96.0%	97.0%
550	97.0%	98.0%
600	96.0%	97.0%
650	93.0%	96.0%
700	86.5%	92.0%



Spectral Reflectance HR-97-143 (S&P) Avg

Wavelength (nm)	Maximum Reflectance (45°)	Typical Reflectance (45°)
450	96.0%	98.0%
550	96.30%	96.0%
650	> 75.5% - < 90.5%	82.0%

