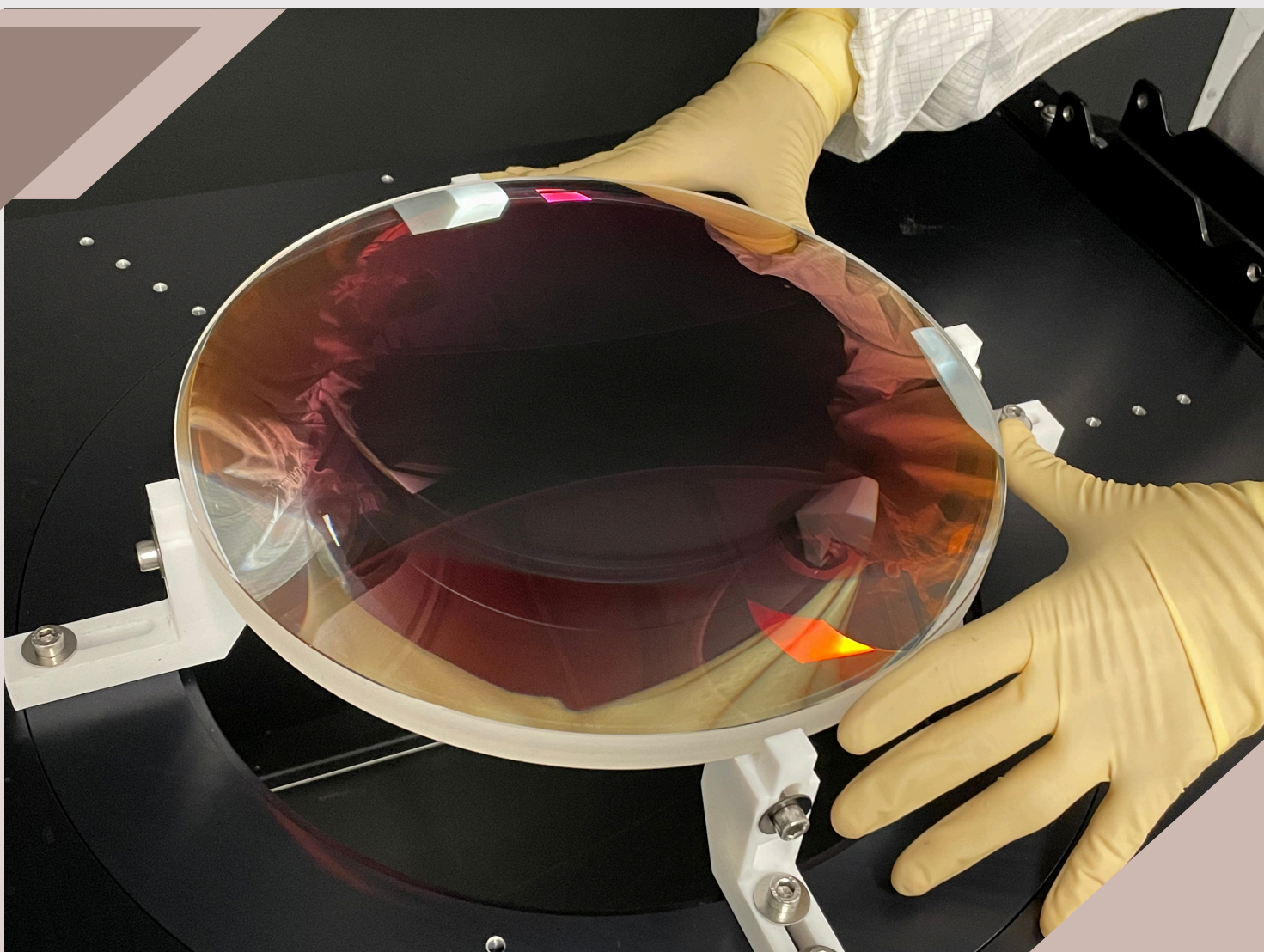




DIELECTRIC COATINGS

FOR SPACE, DEFENCE, LASER, SATCOM, INDUSTRY, BIOMEDICAL,
FUSION, ASTRONOMY, RESEARCH



HIGH-PERFORMANCE DIELECTRIC OPTICAL COATINGS

From small to large dimensions:

- up to 2 meters for AR coatings
- up to 400 mm for dichroics and mirrors
- up to 200 mm for filters

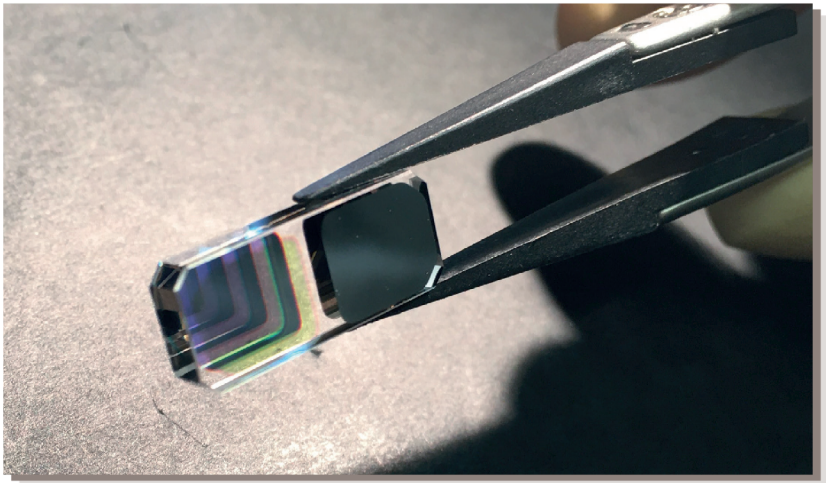
High relectivity mirrors, High performances band-pass filters, dichroics, beamsplitters, polarizers, anti-reflective coatings



Custom coating design support

From prototype to serial production

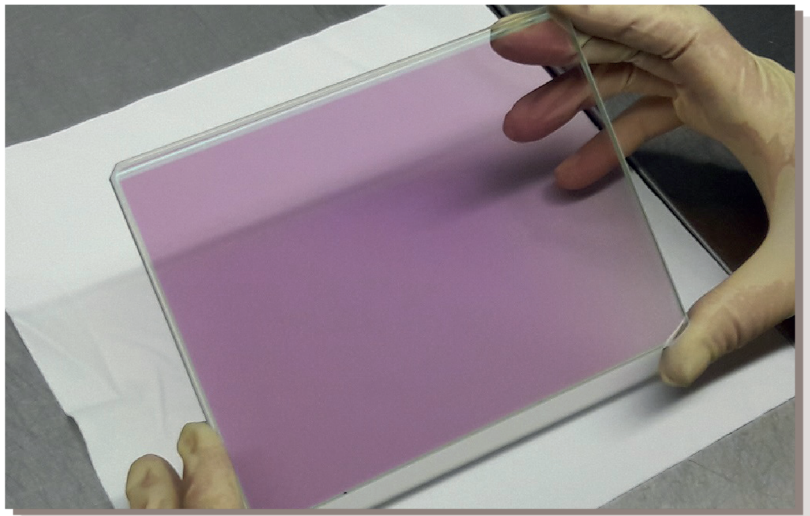
High durability in extreme environment



FEATURES OF DIELECTRIC COATINGS

SUBSTRATE MATERIALS	Fused silica, Sapphire, BK7, BK7G18, CaF2, Zerodur® and other specialty optical glasses
SUBSTRATES SHAPES	Lenses, windows, wedges, freeform optics
COATING TYPE	Dielectric coatings based on oxides
COATING PROCESS	Magnetron sputtering (dense coating) Plasma Ion Assisted deposition (dense coating) In-situ optical monitoring 900 m² of clean room ISO5 to ISO8

SPECTRAL RANGE	220 nm to 2.5 µm
COSMETICS	5/C 1 x 0.16 per 25 mm pupil according to ISO 10110-7
ENVIRONMENTAL COMPATIBILITY	Suitable for severe environments (ATOX, radiations, vacuum, humidity...) Space heritage available upon request Cleanable
WAVE FRONT ERROR (WFE)	Stress compensation available upon request
LASER APPLICATIONS	High LIDT for ns, ps, fs regimes Low absorption for CW



MAIN REFERENCES

- Microcarb filters
- Dichroics for Perseverance SuperCam and Curiosity Chemcam
- ELT MICADO Filters and PDS beamsplitters
- VLT SPHERE IRDIS Filters
- Earth Observation Satellite imaging programs
- Laser communication in-flight (TELEO) and ground-based optical communication stations
- AR coatings for microelectronic industry

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