

# PERFORMANCE BY DESIGN



## Revolutionizing Surface Engineering for Space

### Overview

OLMA shapes the thermo-optical behaviour using **femtosecond-laser texturing**. Each surface can be tuned to achieve the desired balance between solar absorptivity ( $\alpha$ ) and infrared emissivity ( $\varepsilon$ ), matching the thermal requirements of every mission.

### Cosmic Black

Delivering  $\alpha \approx \varepsilon \approx 1$  across UV–IR  
No coatings, no flaking, and no added mass.  
Permanent and space-qualified

Property	Value
UV Absorptivity	0.95 – 0.98 [-]
IR emissivity	0.95 – 0.98 [-]
Temperature range	-200 °C to +300 °C

### Key Advantages

- Applicable to common space alloys: Al 2000/6000/7000, Titanium
- Durable & stable under thermal cycling, radiation and AIT operations
- Access on complex geometries
- No peeling, no flake risk, no ESD risk

### Interested in trialling Cosmic Black?

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