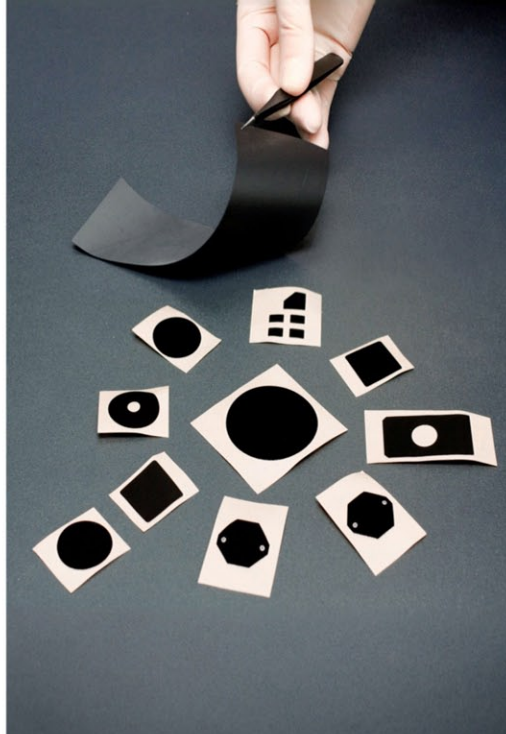
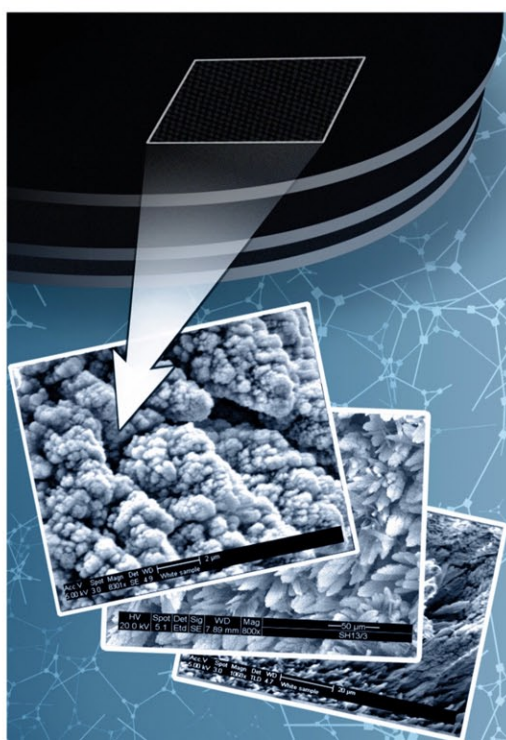
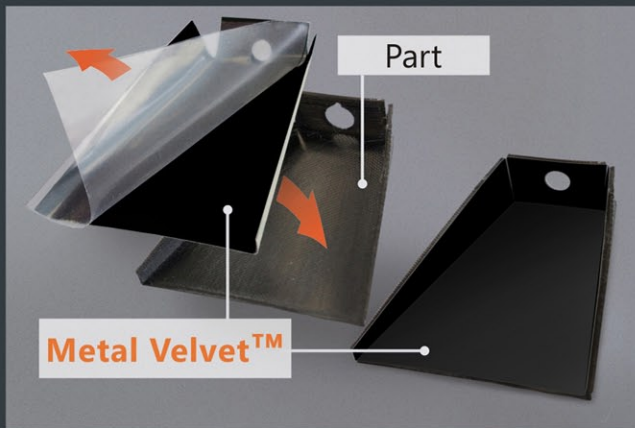


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HI-TECH ON THE SURFACE



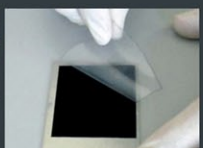
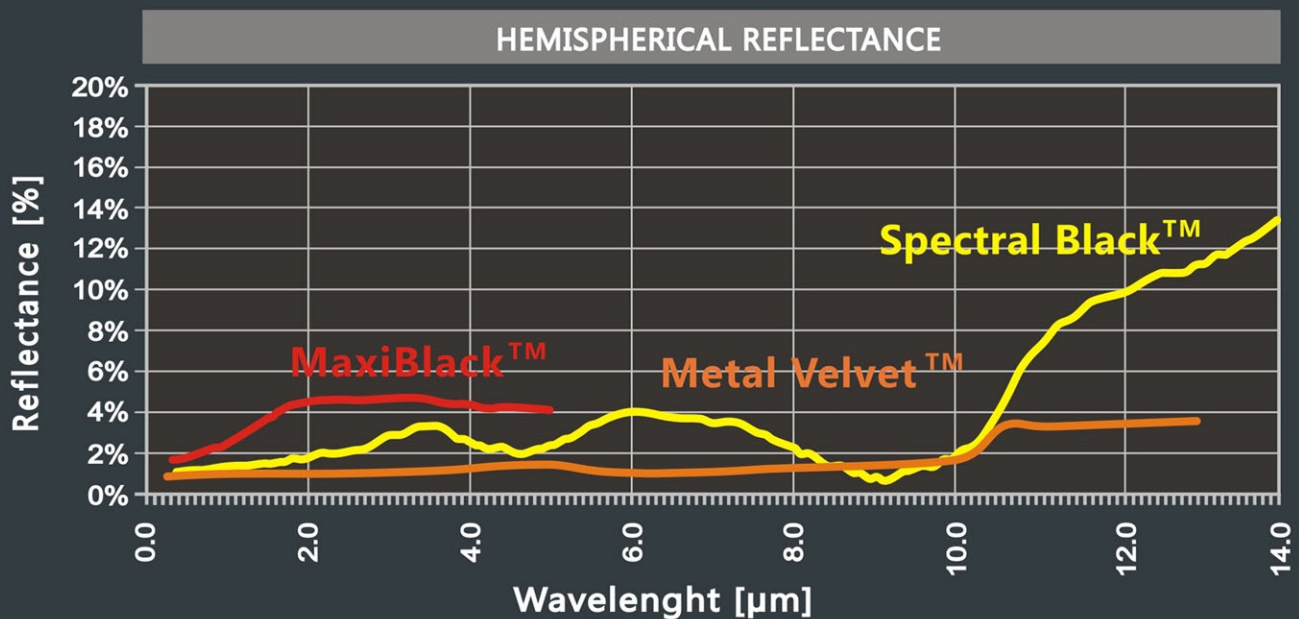



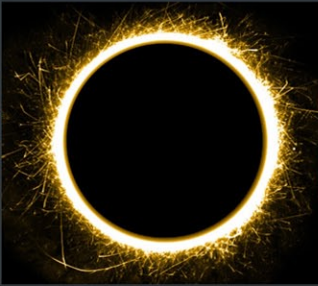
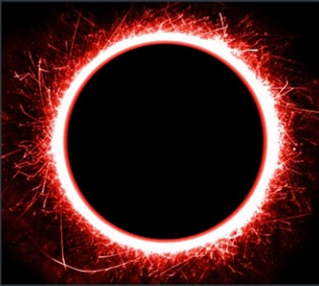

Main Features

- Broadband optical performance
- Broad operational temperature range
- Clean room compatible (ISO 5)
- Low outgassing: CVCN < 0.001
- Biocompatible: no cytotoxicity
- High laser damage threshold (LIDT)
- Cleanable
- Preform to customer design
- Suitable for flat, concave or convex surfaces
- Standard, low-outgassing and high-temperature adhesive options

Typical Applications

- Optical system housings
- Apertures and baffles
- Beam dumps
- Laser safety screens
- Mobile phone camera parts
- Automotive – cameras and HUDs
- Calibration standards
- Analytical lab arrays
- Space qualified option is available



Parameter	Metal Velvet™ Ultra Diffusive	Spectral Black™ Semi-Specular	MaxiBlack™ Diffusive Polyimide
Sample			
Wavelength	EUV-FIR		UV-SWIR
 <div> <div>Protective Film</div> <div>Black Coating</div> <div>Substrate</div> <div>Adhesive</div> </div>	To be removed after application		
	5-8 μm	3-7 μm	2-3 μm
	115 μm Aluminum	125 μm Aluminum	75 μm (custom available) Polyimide
	60 μm		30 μm / 60 μm

Coating chemical content	Completely inorganic – metal based		
Coating outgassing CVCm	0.001 (%)		
Humidity resistance	MIL-C- 48497A		
Abrasion resistance	Light – should not be rubbed or scratched	Moderate	Moderate
	Working Temperatures		
Without adhesive	Long term: -250°C + 350°C (-320°F to +662°F) Short term: up to +400°C (+752°F)		Long term: -250°C to +290°C Short term: up to +400°C
With standard adhesive	Long term: -40°C to +121°C (-40°F to +250°F) Short term: up to +177°C (+351°F)		
With low outgassing adhesive	Long term -50°C to +150°C (-58°F to +302°F) Short term: up to +260°C (+500°F)		
	Delivery Formats		
Sheet	20x30 cm / 20x60 cm		
Roll	20/30 cm width, any length	20 cm width, any length	20/30 cm width, any length
Adhesive	Optional		
Die-cut (pre-cut)	Supplied as tight-tolerance cut to shape labels according to drawing		
Certificates	ROHS, REACH, ISO 9001:2015, AS9100		
	Storage and Shelf Life		
Storage conditions	Indoors (temperature approx. 21°C; RH approx. 50%)		
Standard shelf life	For best performance, apply adhesive and remove protective within 12 months of shipment		
Cleanability	Compressed dry air or nitrogen		

■ Acktar is a world leader in the development and production of high emissivity Ultra Black coatings for the suppression of stray light throughout the optical spectrum UV-VIS-IR. With the ability to coat most substrates, plastic, glass, ceramics and metals to custom 3D opto-mechanical parts, Acktar is considered a standard of excellence in the field. The coatings are space-qualified, inorganic, thin, RoHS & REACH compliant, biocompatible, low outgassing and more.

■ Acktar offers pre coated opto-mechanical parts such as, apertures, slits, beam dumps and Hexa Black designed uniquely for grazing angles.

■ Acktar's coated foils and thin films enable the customer to benefit from Acktar coatings performance without sending the parts to Acktar. This is an ideal solution for very large quantities, over-sized part areas and for contaminated environments where the light absorbing surface needs to be periodically renewed.

We are proud to serve major industries including:

- **Space Optics and Satellites**
- **Security & Defense**
- **Metrology and Inspection**
- **Mobile Optics and Micro-Optics**
- **Automotive**
- **Bio**

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