

# World's Blackest Coatings

## Acktar Black™

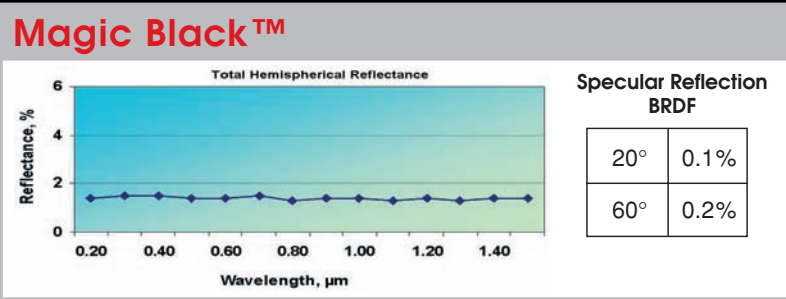
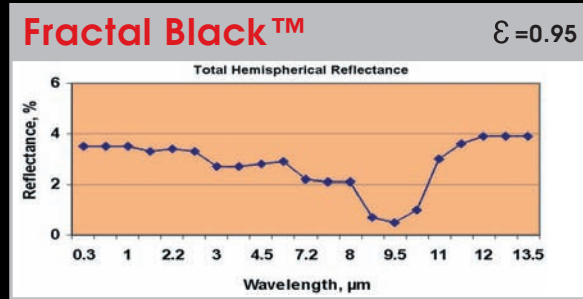
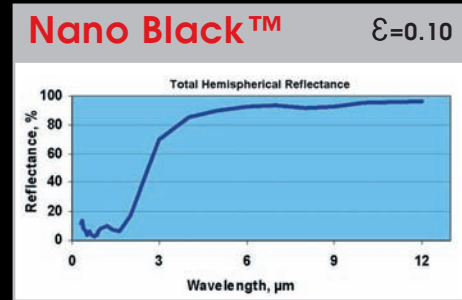
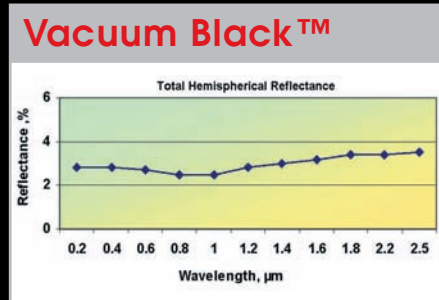
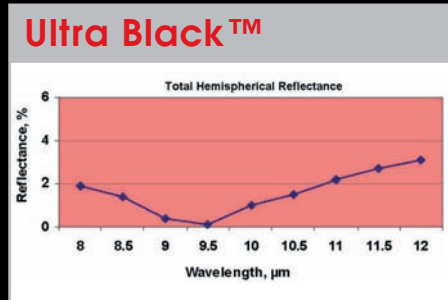
By Proprietary Vacuum Deposition Technology



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**99.9% Specular Absorptance –  
UV and Visible (0.2-0.75 μm)**

**99.5% Total Absorptance –  
Infra Red (at 9.5 μm)**

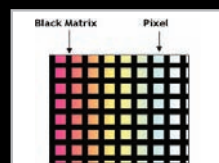


## Features and Advantages

- Completely inorganic
- Extremely low outgassing
- High resistance to solvents (alcohol, acetone)
- Excellent adhesion to aluminum, copper, stainless steel, invar, kovar, glass, ceramics, polyimide, nickel, magnesium, titanium and other metals.
- High vibration stability
- High resistance to ionizing radiation
- High thermal conductivity
- Electrically conductive or non-conductive options
- Environmentally friendly process

## Specifications

	units	Nano Black™	Magic Black™	Vacuum Black™	Fractal Black™	Ultra Black™
Coating thickness (typical)	μm	0.5	5	3	11	13
Temperature range	deg K	77- 623 (720 for short periods)				
Coating weight	mg/cm2	0.07	0.9	0.45	1.6	2
Outgassing - CVCM	%	0.005	0.01	0.005	0.01	0.01
Outgassing - TML	mg/cm2	0.0016	0.019	0.014	0.037	0.045
Abrasion resistance		moderate	light	moderate	moderate	moderate



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