

Savroc - Advanced Coating Solutions

TripleHard® - Engine Part Protection

Savroc develops advanced coatings with superior wear resistance, corrosion protection, and sustainability. Our patented TripleHard® coating outperforms Cr^{6+} , eliminating hazardous chemicals while meeting industry standards.

High hardness

Low friction

Why Choose TripleHard®

Future-proof Compliance: TripleHard® keeps you REACH compliant without costly re-qualifications.

Outstanding performance: 900-1500 HV

hardness, superior corrosion resistance and excellent heat resistance give a clearly longer service life than Cr6+ coatings.

Lower total cost: Plug-and-play retrofit to existing Cr lines and a longer bath life cut chemical spend and downtime.

Validated Technology: Proven in heavy-duty industrial applications with global leaders.









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Schedule a meeting with our experts or download more materials.



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Increased lifespan of components



Reduced maintenance costs



Environmentally friendly alternative

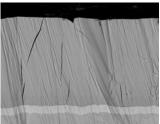
Comparative Coating Technologies Feature

Feature	Cr ⁶⁺ Coating	Nitriding	HVAF	Laser Cladding	TripleHard®
Hardness (HV)	800-1000	1000-1200	1100-1400	900-1300	900–1500
Friction Coefficient	0.2-0.3	0.2-0.3	0.2-0.25	0.2-0.3	0.15-0.2
Cost (€/unit)	Low	Moderate	High	High (energy use)	Low
Environmental Impact	Hazardous (Cr6+)	↑ CO₂ (high temp)	Medium	Very high (energy)	Safe (Cr³+, no Cr6+)
Corrosion Resistance	Good	Moderate	Good	Very high	Excellent
Temperature Resistance (°C)	350-400	500-600	700-800	>800	700
Impact Resistance	Moderate	Poor	Good	High	High
Coating Thickness (µm)	5–200	100-500	60-300	100-800	5-70, in some cases up to 150
Suitability for Sliding Parts	Limited	Limited	Good	Poor	Excellent
Process Complexity	Low	Moderate	High	Very high	Moderate

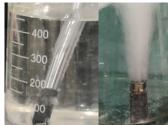
Analytical Evidence



Injector Pins



Cross-sectional image of typical TripleHard coating



High Corrosion Resistance



Bend test - No detachment, ensuring strong adhesion



Scratch test - No detachment or cracking, ensuring long-term durability

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