

SAVROC

HARD CHROMIUM TECHNOLOGY

Savroc – Advanced Coating Solutions

TripleHard® – Surface Protection for Automotive Components

Savroc develops advanced coatings with superior wear resistance, corrosion protection, and sustainability. Our patented TripleHard® coating outperforms Cr6, eliminating hazardous chemicals while meeting industry standards.

High hardness | Low friction | Cr³⁺-based | Cr⁶⁺-free | Corrosion resistant

Key Points

- High wear resistance for moving parts
- Cr6+ free and REACH compliant
- Cost-efficient with longer service intervals
- Integrates into existing production lines



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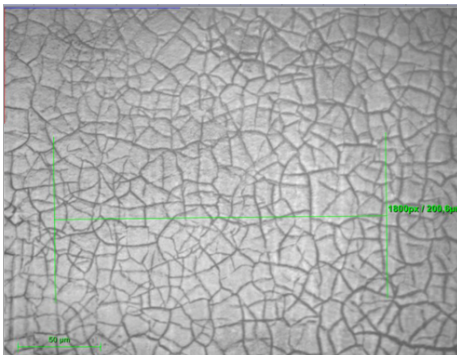
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Comparative Coating Technologies Feature

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 (Cr ⁶⁺)	↑ CO ₂ (high temp)	Medium	Very high (energy)	Safe (Cr ³⁺ , no Cr ⁶⁺)
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

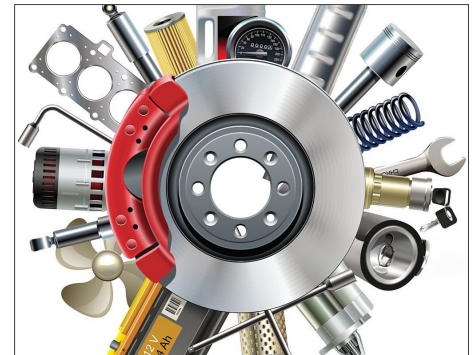
Analytical Evidence



TripleHard® Coating Crack Network



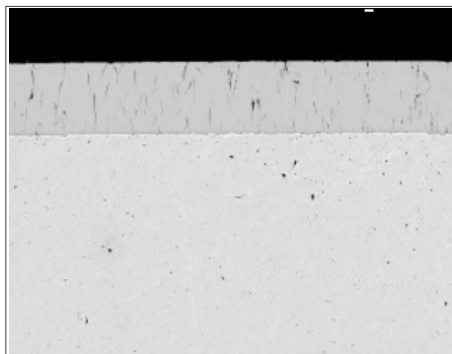
Brake Cylinder



Automotive brake parts



Coated parts



Cross Section



Automotive brake

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Discover real-world applications. Learn about our exclusive industry partnerships.

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