

ZinKlad™ Brake 240

Worldwide Consistent Quality Zinc Finish for Brake Components



ZinKlad Brake 240 – Globally Consistent High Quality and Cost Efficient Coating

ZinKlad Brake 240 coatings provide cost efficient, highly uniform silver colored finishes to cast iron parts meeting the automotive requirements for zinc finished brake components. The coating is fully compliant with ELV requirements and ready for REACH regulations.

ZinKlad Brake 240 is a 'drop in' process suitable for existing zinc electroplating lines. Our special inorganic sealant is a dedicated development for brake component finishing. It provides reduced surface residues while meeting all automotive requirements such as brake fluid compatibility and high temperature resistance.

When it comes to providing corrosion resistance with an attractive silver appearance, **ZinKlad Brake 240** delivers globally consistent finish quality.



KEY FEATURES

- Brake Fluid Compatible, Heat and UV Resistant Coating
- ELV Compliant, REACH Ready Hexavalent Chromium-free Finish
- Boric Acid- and Cobalt-free Solution Available
- Global Availability



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ZinKlad Brake 240 Performance Data

ZinKlad Brake 240 combines an homogenous metallic zinc deposit of 8 microns minimum thickness, with a high build passivate and clear sealer.

The zinc deposit is applied from our ammonium-free and (optionally) boric acid-free electrodeposition processes.

The zinc deposit is reinforced with a thick film passivate providing high white rust corrosion protection from an optionally cobalt-free solution.

Finally, the sealer from the **ENSEAL** product range complements the system, further reinforcing corrosion protection even after mechanical stress is exerted to the component. The inorganic sealers are formulated to provide even coverage and superior reduced residue droplet formation.

Corrosion Performance (ASTM B-117)		
	First White Corrosion	First Red Corrosion
ZinKlad Brake 240	120 h	480 h



Recommended Processes Used To Create ZinKlad Brake 240 Coatings

Zinc	Provides the sacrificial protection
ENTHOBRITE CLZ-941	Fast initiation and coverage providing best LCD performance also at elevated bath temperature
ENTHOBRITE CLZ-970	TRW approved, extensively proven acid zinc process
ENTHOBRITE CLZ BF2	Boric acid-free acidic zinc process, fastest plating at high current densities.
Trivalent Passivates	Protects the zinc deposit from white rust
PERMA PASS 3300	Cobalt-free zinc passivate, used in conjunction with sealant
TriPass ELV1500 LT	Low temperature, thick film passivate, low application temperature (35°C)
Topcoat	Improves corrosion resistance and modifies friction properties
ENSEAL 125	Inorganic sealer with brake fluid compatibility
ENSEAL 4BRK	Inorganic reactive sealer brake fluid compatible, reduced residue formation



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