

# ZinKlad® Brake 1000



## The toughest high performance coating, globally consistent highest quality

**ZinKlad Brake 1000** coatings provide the highest level of corrosion protection for plated cast iron brake components. The coating meets even the most stringent automotive requirements for zinc-nickel alloy finished brake components.

**ZinKlad Brake 1000** is a zinc-nickel based coating process which is entirely compliant with global regulations including ELV and the REACH legislation.

Along the finish sequence the complete process is optimized and proven to deliver unrivaled first pass yields.

The ZinKlad quality assurance program provides unrivaled consistency to meet specified requirements in any production location, globally.

### Features

- Consistent exceptional corrosion protection
- Global availability, globally consistent quality
- Boric acid- and cobalt-free solutions available
- Very well suited for assembly with aluminum materials

**Already on it.**



# ZinKlad Brake 1000

Worldwide consistent quality zinc-nickel alloy finish for brake components

## Performance Data

**ZinKlad Brake 1000** combines a uniform metallic zinc-nickel deposit with a cobalt-free passivate. A clear reactive sealer is applied to further increase corrosion resistance.

METEX and ACTANE pre-treatment solutions ensure safe and consistent cast iron cleaning. The zinc-nickel deposit is applied directly to the cast iron material from the acidic zinc-nickel processes. The process is formulated to yield state-of-the-art uniformity in alloy composition and thickness distribution.

The zinc-nickel coating's protection is further reinforced by the trivalent passivate and the the specilazed inorganic brake sealer ENSEAL 4BRK. The inorganic sealer is formulated to provide superior low residue droplet formation and high protection.

In combination, the above features ensure that the complete **ZinKlad Brake 1000** process consistently meets the most stringent performance requirements in brake component applications.

Corrosion Performance (ASTM B-117 / ISO-9227)		
	First white corrosion	First red corrosion
<b>ZinKlad Brake 1000</b>	300 h	1200 h

Recommended processes used to create ZinKlad Brake 1000 coatings	
<b>Zinc-Nickel alloy</b>	<b>Provides high level cathodic corrosion protection</b>
<b>ZINCROLYTE KCL-Ni IV</b>	Acidic zinc-nickel direct plating process
<b>ZINCROLYTE Ni V</b>	Boric acid-free next generation acidic zinc-nickel
<b>Trivalent Passivates</b>	<b>Protects the zinc deposit from white rust</b>
<b>TriPass ELV Ultra IV</b>	Cobalt-free zinc-nickel passivate featuring economic operations through mild appl. parameters
<b>Topcoat</b>	<b>Improves corrosion resistance and modifies friction properties</b>
<b>ENSEAL 4BRK</b>	State-of-the-art reactive sealer, fluid compatible, very even coatings, uniform protection and appearance through reduced residue formation



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