

APPLICATIONS

Corrosion resistance • Lubricity • Friction properties improvement
Foundation for subsequent coating or painting

The Phosphate Coating Process

Phosphate coating is a conversion coating used on ferrous parts. We spray or immerse substrates in a dilute solution of phosphoric acid and phosphate salts. The solution reacts with the surface of the part to form an even layer of insoluble, crystalline phosphates.

We offer Manganese Phosphate and Zinc Phosphate Coatings

Manganese phosphates base (type M) are used both for corrosion resistance, anti-galling and lubricity. Typical uses are bearings, bushings, fasteners, and projects that require sliding of parts, such as automotive engines and transmission systems.

Zinc phosphates base (type Z) are used for corrosion protection (phosphate and oil), as a lubricant base layer, and as a paint/coating base. While manganese phosphate is a heavier coating, zinc phosphate is a lighter alternative that provides resistance to harsh elements that cause products to wear quickly.



SPECIFICATIONS

MIL-DTL-16232 • TT-C-490 Type I

CAPABILITIES & RELATED SERVICES

- Rack and Barrel (bulk) plating
- Regular and Touch Dry Oil
- Salt spray testing
- Stripping
- Tumbling
- Blasting
- Packaging
- Masking

COMMON SUBSTRATES

- Steel

LEARN MORE ABOUT OUR PHOSPHATE COATINGS

Eco Finishing can help you with a variety of phosphate coating needs.

Contact our Fridley office at (763) 574-1000 or contact us for a risk-free quote at www.ecofinishing.com.