



CHEM PROCESSING, INC.

Platings & Coatings for Industry

Zinc Phosphate

Zinc Phosphate coatings serve as a base for organic coatings, such as paint or lacquer, lubricating oils, or waxes. The coating provides minimal corrosion protection—it's purpose is to provide a crystal structure to which the subsequent organic coating, oil or wax can mechanically bond. A zinc phosphate coating can be gray or black, with these colors deepened by subsequent application of oil. For defense applications, this finish can reduce reflectivity of base materials.

Chem Processing Inc. Zinc Phosphate Capabilities:

- Coating weights range of 150mg/m² to 3 g/m²
- Military certifications
- Available masking for selective coating application
- Salt Spray Corrosion Test per ASTM B-117
- Bulk or rack processing

Applicable Specifications:

MIL-DTL-16232

TT-C-490 5.3.2

MIL-STD-171

VGS 6.2.3

Common Applications of Zinc Phosphate Coatings:

- **Oil & Gas Industry:** Primer for critical components
- **Defense:** CARC primer. Non reflective finish for equipment.
- **Automotive:** Base for organic coatings.
- **Aerospace:** Break-in of moving parts and threads. Primer for specialized coatings.
- **Gears & Bearings:** Holds lubricants on surface.
- **Mining Equipment:** Primer for fluoropolymer coatings.

Chem Processing Inc. is committed to excellence in metal finishing. Chem Processing Inc. uses their engineering expertise and computerized process controls to **exceed their customer's expectations** when adherence to strict thickness specifications is essential.