



HANS CHEMICALS PRIVATE LIMITED

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TECHNICAL DATA SHEET

ZINC PHOSPHATE

Zinc Phosphate is an inorganic chemical compound used as a corrosion resistant coating on metal surfaces either as part of an electroplating process or applied as a primer pigment. Zinc Phosphate is a nontoxic and harmless white antirust pigment.

Specification :

Synonyms : Zinc Ortho Phosphate
CAS No. : 7779-90-0

1. Appearance	: White
2. Molecular Formula	: $\text{Zn}_3(\text{PO}_4)_2$
3. Zinc	: 50%-52%
4. Phosphate as PO_4	: 46% -47%
5. pH	: 7
6. Oil absorption	: 18-24 g/100gm
7. Loss On Ignition	: 9-13
8. Chloride as Cl	: Nil
9. Sulphate as SO_3	: Nil
10. Lead as Pb	: Nil
11. Residue On 45 um	: 0.1%

Uses :

- ❖ Zinc Phosphate is used in corrosion resisting primers and undercoats. It is widely used in various coating materials for preparation of waterproof, acid-resistant or corrosion preventive coating materials such as phenolic paint, epoxy paint, acrylic paint, and paste paint.
- ❖ Zinc Phosphate is used in manufacturing of Zinc Rich Paint Formulations.
- ❖ Zinc Phosphate is used in manufacturing of Fertilizers.
- ❖ Zinc Phosphate is used for water-soluble resin paint in the fields of shipbuilding, automobile, industrial machinery, light metal, household appliances and metal containers for foods.