



JIANGSU KHONOR CHEMICALS CO.,LIMITED

## Technical data sheet

Product		Zinc phosphate
CAS No.		34807-26-6
Appearance		White fine powder
Molecular formula		$\text{Zn}_3(\text{PO}_4)_2 \cdot x\text{H}_2\text{O}$
Molecular weight		438
Melting point		900°C
Solubility in water		Insoluble
Density		3.998g/cm <sup>3</sup>
Zn (Drying at 105 °C)	%	≥45.0
P (as in $\text{PO}_4^{3-}$ )	%	≥43.0
105 °C Volatile content	%	≤3.0
Sieve residue of 45µm sieve	%	≤0.3
600 °C Loss on ignition	%	8.0-13.0
Oil absorption (g/100g sample)		30±10
Pb	ppm	≤20
Cr	ppm	≤5.0
As	ppm	≤3.0

### Introduction:

Colorless orthorhombic crystal or white microcrystalline powder. Soluble in inorganic acid, ammonia water, ammonium salt solution; insoluble in ethanol; almost insoluble in water, and its solubility in water decreases with increasing temperature. ZP-55 Zinc Phosphate is a white non-toxic and pollution-free environment-friendly anti-rust pigment.

### Features:

1. It is a non-toxic and pollution-free white anti-rust pigment with low heavy metal content.
2. The refractive index is small, the transparency is high, and it is easy to color in the paint. It can be combined with other colored pigments to prepare primers of various colors.
3. The dissociated phosphate ions can phosphate and passivate the surface of the

steel metal to form a passivation film to protect the metal substrate.

4. It is suitable for preparing anti-rust primer and bottom-in-one paint in oil-based paint and water-based paint.

5. It has strong versatility and can be used alone or in combination with other anti-rust pigments and fillers to provide high-efficiency anti-corrosion properties.

**Uses:**

Widely used as anti-rust paint for ships, steel frame structures, automobiles, containers, coiled materials, industrial machinery, light metals, household appliances and food containers, etc. In addition, it can also be used for the production of chlorinated rubber and synthetic polymer materials. Adhesive sintering additive in flame retardants, electronics, low temperature glass, transparent ceramics.

**How to use:**

It can be directly mixed with base material, auxiliary material, auxiliary agent and solvent, and then dispersed.

**Storage:** Store at room temperature and avoid moisture.

**Shelf life:** 24 months.

**Packing:** 25kg double-layer plastic woven bag or composite paper bag.