

ZINC PHOSPHATE PZ20

ZINC PHOSPHATE TETRAHYDRATE, $Zn_3(PO_4)_2 \cdot 4H_2O$

ZINC PHOSPHATE

PZ20 0423G

DESCRIPTION

Zinc phosphate PZ20 is a corrosion inhibiting pigment suitable for a wide range of applications, from DIY to more demanding ones such as coil coatings. It is a stable and non-hygroscopic white powder with a low tinting strength, it is easily dispersed. Thanks to its low solubility, Zinc phosphate PZ20 is compatible with a wide range of solvent and water based resins.

Technical data

	Nominal value	Tolerance (+/-)	
Zn content (%) - on the ignited product	50.0	2.0	ICP
PO ₄ content (%) - on the ignited product	48.0	2.0	ICP
Oil absorption (cm ³ /100 g)	27	5	ISO 787-5
Sieve residue - 45 µm (%)	0.05	max	ISO 787-7
pH	6.5	1.0	ISO 787-9
Pb Content (ppm)	90	max	ICP
Cd Content (ppm)	100	max	ICP
Density (g/mL)	Typ. 3.2		ISO 8130-2
D50 (µm)	Typ. 7		ISO 13320
Fineness	North	Typ. 7	ISO 787-5
	Hegman	Typ. 5.5	ISO 1524
Bonded water content (%) - 1h at 600°C	Typ. 15.7		Gravimetry

Recommended shelf life: 5 years

Formulators Guidelines

Solvent Based

	Performance
Short oil alkyd	★ ★ ★
Medium/long oil alkyd	★ ★
High solid epoxy	★ ★
2K epoxy	★ ★
Epoxy ester	★ ★
PU	★ ★

Water Based

	Performance
Water reducible alkyd	★ ★
Alkyd emulsion	★ ★
Epoxy ester	★ ★
2K epoxy	★ ★
Acrylics/modified acrylics	★ ★

Specialty coatings

Wash primer	★
Coil coating	★ ★ ★*
Powder coating	

Excellent: ★ ★ ★ Good: ★ ★ Possible: ★
 Not yet tested: ___ Not recommended: nr
 *: Normally used in association with other pigments (ex: ion exchanged Silica)

Best performances are obtained with a typical loading of 5 to 12% by weight on the total formulation and a PVC ranging from 20% to 40%



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