



Technical Data Sheet

Wayncor™ 224 – Zinc Phosphosilicate

Wayncor™ 224 is a white non-refractive, corrosion inhibitive pigment used in protective coatings systems. It is compatible with a wide assortment of commercially available resin systems. It can provide an economic alternative to standard grade zinc phosphate. Performance can vary depending upon choice of resin system, but in general the use level would be between 3 – 10% total formula weight.

Characteristic	Test Method	Typical Value
Appearance		White powder
Zinc as ZnO [%]		31 - 33
Phosphate as P ₂ O ₅ [%]		17 - 19
Silicate as SiO ₂ [%]		25 - 27
Calcium as CaO [%]		23 - 25
Specific Gravity	ASTM D-153	2.90
Bulking Value [gal/lb] [l/kg]		0.041 0.345
pH	ASTM D-1208	7.0 – 9.0
Conductivity [micro-Siemens]	ASTM D-2448	< 150
Moisture at 110 °C [%]	ASTM D-280	5.0 Max
Loss on Ignition 600°C [%]	ASTM D-6280 (A3)	10.0 Max
Oil Absorption [lbs/100 lbs] [kg/100kg]	ASTM D-281	25 - 40
Apparent Bulk Density, Tapped [g/100 cm ³]		45 - 75
Fineness of Grind [Hegman Value]	ASTM D-1210	5.0 Min.
Mean particle size [microns]	Malvern Mastersizer	6.9

Suggested Applications
Short and Medium Oil Alkyds
Long Oil Alkyds
High Solids Alkyds
Epoxies – Solvent and Water
High Solids Epoxies
Polyurethanes 1K and 2K
Alkyd Emulsions
Epoxy Dispersions
Acrylics and Modified Acrylics
Hybrids
Baking Enamels

Performance in other coating systems has not been evaluated.

These are typical values and do not represent specifications.

The information made herein is based upon our research and the research of others, and is believed to be accurate. No guarantee of accuracy is made and the product discussed is sold without warrant, expressed or implied and upon the condition the purchaser shall make their own tests to determine the suitability of such product for their particular purposes.

