

Product Description

Chemical characterization	Zinc aluminium polyphosphate hydrate
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HEUCOPHOS® ZAPP is a zinc aluminium polyphosphate hydrate with improved electrochemical activity. HEUCOPHOS® ZAPP is an effective and versatile anti-corrosive pigment for different binder systems.

Technical Data

	Unit	Value	Test Method
Zinc as ZnO	[%]	28.0 - 31.0	acc. to ISO 6745
Aluminium as Al ₂ O ₃	[%]	11.0 - 13.0	Complexometric titration
Phosphorous as P ₂ O ₅	[%]	46.0 - 49.0	acc. to ISO 6745
Water-soluble chloride	[%]	max. 0.025	acc. to ISO 787-13
Water-soluble sulphate	[%]	max. 0.05	acc. to ISO 787-13
Lead as Pb	[ppm]	max. 10	ICP-OES
Cadmium as Cd	[ppm]	max. 10	ICP-OES
Loss on ignition 600 °C	[%]	8.0 - 12.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 100	acc. to ISO 787-14
pH value		5.5 - 6.5	acc. to ISO 787-9
Density	[g/cm ³]	typ. 2.8	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.3	
Tamped density	[g/cm ³]	typ. 0.6	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 35	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.0 - 3.5	acc. to ISO 13319

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Disclaimer - The information given in this data sheet is based on the present state of our knowledge & is intended as a general description of our products & their possible applications. Neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Because of the multitude of formulations, production & application conditions, all the above mentioned data have to be adjusted to the circumstances of the processor. As customer use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in any particular application. In addition to that, the legal rights of third parties must always be considered. No liabilities, including those for patent rights, can be derived from this fact for individual cases. It cannot be ruled out that this product contains particles < 0.1 µm. Any user of this product is responsible for determining the suitability of Sudarshan's products for its particular application & to ensure that any proprietary rights & existing laws & legislation are observed.

Application Profile			
Solvent based coatings			
Short and medium oil alkyds	++		
Long oil alkyds	++		
High solids alkyds		✓	
2K Epoxies	+		
Epoxy esters			
High solids epoxies		✓	
2K Polyurethanes	+++		●
High solids polyurethanes	++	✓	
Moisture cured polyurethanes			
Silicone resins			
Water based coatings			
Alkyd emulsions	++	✓	
2K Epoxies	++	✓	●
1K Polyurethanes		✓	
2K Polyurethanes	+++	✓	
Silicone resins	++	✓	
Acrylic and modified acrylics		✓	
Butadiens		✓	
Specialty coatings			
Coil coatings	+		
Aircraft primers			
Wash and shop primers	++		●
Direct to metal			
UV cured systems		✓	
Powder coatings		✓	

+++ Excellent choice

++ Good choice

+ Possible choice

✓ Resin with low or no VOCs

● Additionally recommended in combination with HEUCORIN® RZ

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