

Product Description

Chemical characterization	Calcium magnesium orthophosphate
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HEUCOPHOS® CMP is a zinc-free anticorrosive with universal applicability for long term protection.

Technical Data

	Unit	Value	Test Method
Calcium as CaO	[%]	43.5 - 47.5	Complexometric titration
Magnesium as MgO	[%]	2.5 - 4.5	ICP-OES
Phosphorous as PO ₄ ³⁻	[%]	43.0 - 47.0	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	[%]	5.5 - 7.5	acc. to ISO 6745
Conductivity	[µS/cm]	max. 1200	acc. to ISO 787-14
pH value		5.5 - 7.5	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. 0.5	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 45	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	acc. to ISO 787-7
Median D50	[µm]	max. 3.0	acc. to ISO 13320

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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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