

## Product Description

Chemical characterization	Micronized calcium phosphate
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Calcium Phosphate CP is a zinc-free anti-corrosive pigment for the application in protective coatings.

## Technical Data

	Unit	Value	Test Method
Calcium as CaO	[% ]	39.5 - 43.5	Complexometric titration
Phosphorous as P <sub>2</sub> O <sub>5</sub>	[% ]	47.5 - 51.5	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	[% ]	6.0 - 10.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 600	acc. to ISO 787-14
pH value		5.0 - 8.0	acc. to ISO 787-9
Density	[g/cm <sup>3</sup> ]	typ. 2.9	acc. to ISO 787-10
Bulk density	[g/cm <sup>3</sup> ]	typ. 0.3	
Tamped density	[g/cm <sup>3</sup> ]	typ. 0.6	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 40	acc. to ISO 787-5
Sieve residue 32 µm	[% ]	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.5 - 4.0	acc. to ISO 13319

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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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