

Product Description

Chemical characterization	Zinc-free calcium modified silica gel
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HEUCOSIL™ CTF is a highly effective anti-corrosive pigment designed to meet the specific performance requirements for coil coatings and other thin-film applications.

Technical Data

	Unit	Value	Test Method
Calcium as CaO	[%]	3.0 - 5.0	ICP-OES
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 1000 °C	[%]	5.0 - 8.0	acc. to ISO 3262-1
Conductivity	[µS/cm]	max. 500	acc. to ISO 787-14
pH value		6.5 - 8.5	acc. to ISO 787-9
Density	[g/cm ³]	typ. 2.2	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.2	
Tamped density	[g/cm ³]	typ. 0.3	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 120	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.0 - 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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