

HEUCOSIL™ CSA AND CSM

A new generation of highly effective Anticorrosives for Coil and Thin-film applications

PROPERTIES:

- After the successful story of HEUCOSIL™ CTF we now present our new silica ion-exchange pigments HEUCOSIL™ CSA and HEUCOSIL™ CSM.
- HEUCOSIL™ CSA is an aluminum modified and HEUCOSIL™ CSM is a magnesium modified silica gel with an outstanding corrosion protection performance meeting the specific requirements for thin-film applications.
- Key benefits are a low oil absorption, reduced blistering, and pH-stabilizing effects due to the basic components. Compared to phosphate-based pigments they exhibit different chemical and physical behavior.

Technical Data	Unit	HEUCOSIL™ CTF	HEUCOSIL™ CSA	HEUCOSIL™ CSM	Test Method
Calcium as CaO [%]	[%]	3.0 - 5.0			ICP-OES
Aluminium as Al ₂ O ₃	[%]		15.0 - 21.0		ICP-OES
Magnesium as MgO	[%]			5.0 - 7.0	ICP-OES
Water-soluble chloride	[%]	max. 0.025	max. 0.025	max. 0.025	acc. to ISO 787-13
Water-soluble sulphate	[%]	max. 0.05	max. 0.05	max. 0.05	acc. to ISO 787-13
Lead as Pb	[ppm]	max. 10	max. 10	max. 10	ICP-OES
Cadmium as Cd	[ppm]	max. 10	max. 10	max. 10	ICP-OES
Loss on ignition 1000 °C	[%]	5.0 - 8.0	10.0 - 13.0	11.0 - 14.0	acc. to ISO 3262-1
Conductivity	[µS/cm]	max. 500	max. 600	max. 1100	acc. to ISO 787-14
pH value		6.5 - 8.5	6.0 - 8.0	6.0 - 8.0	acc. to ISO 787-9
Density	[g/cm ³]	typ. 2.2	typ. 2.4	typ. 2.2	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.2	typ. 0.2	typ. 0.2	
Tamped density	[g/cm ³]	typ. 0.3	typ. 0.3	typ. 0.4	acc. to ISO 787-11
Oil absorption	[g/100g]	120	typ. 80	typ. 100	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	max. 0.01	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.0 - 4.0	2.0 - 4.0	2.0 - 4.0	acc. to ISO 13319

1008 h Salt Spray (ASTM B117-19) DIN EN ISO 9227:2023

- High molecular polyester, high gloss topcoat HMMM cured
- DFT: Primer 6-8 microns / topcoat 20-24 microns
- Substrate: hot-dip galvanized steel pre-treated



Control

Strontium Chromate

Competitor



HEUCOSIL™ CTF

HEUCOSIL™ CSA

HEUCOSIL™ CSM

Application guide:

SOLVENT BASED COATINGS	HEUCOSIL™ CTF, CSA, CSM
Short and medium oil alkyds	
Long oil alkyds	
High solid alkyds	
2K Epoxies	++
Epoxy esters	
High solid epoxies	++
2K Polyurethanes	++
High solid polyurethanes	++
Moisture cured polyurethanes	
Silicone resins	
WATER BASED COATINGS	HEUCOSIL™ CTF, CSA, CSM
Alkyd emulsions	
2K Epoxies	
1K Polyurethanes	
2K Polyurethanes	++
Silicone resins	
Acrylics and modified acrylics	
Butadienes	
SPECIALTY COATINGS	HEUCOSIL™ CTF, CSA, CSM
Coil coatings	+++
Aircraft primers	+
Wash and shop primers	
Direct to metal	
UV cured systems	++
Powder coatings	++

+++ Excellent choice ++ good choice + possible choice

HEUBACH GROUP

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