ELEMENTIS

A global specialty chemicals company

Enhanced Performance Through Applied Innovation

PLUSTALC H25

Functional Extender

GENERAL INFORMATION

PLUSTALC H25 is a hydrated magnesium silicate with chemical formula of $Mg_3Si_4O_{10}(OH)_2$.

Plustalc grades have a low iron content. Plustalc is suitable for such applications where a higher brightness is required.

APPLICATIONS

- Paints & Coatings: Very high whiteness architectural and industrial coatings with dry film thickness of 60-80 µm.
- Plastics: For automotive cabin and under the hood, appliances, pipes, powdering, profiles and sheets.

KEY PROPERTIES

- Pure, lamellar and very white talc with medium fine particle size, very hydrophobic, inert and soft.

INCORPORATION

PLUSTALC H25 can be used as a functional extender to achieve following results:

Paints & Coatings: Excellent whiteness for wall and ceiling coatings, good barrier properties, good wet scrub resistance and outdoor durability, efficient matting agent, good adhesion and sandability.

Plastics: Consistent colour, low abrasion and longer tool life.

LEVELS OF USE

Typical use levels for paints and coatings applications are 10-30 % depending upon the application and the desired properties.

Typical use levels for talc in plastics depending upon the application. Please contact your local sales representative for advice.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Store dry.

SHELF LIFE

PLUSTALC H25 has a shelf life of 5 (five) years from the date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

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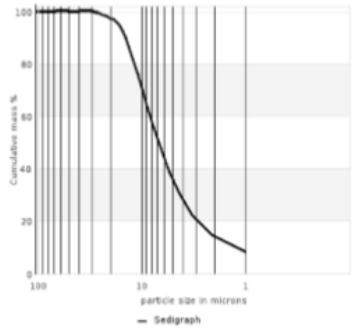
MINERALOGY	Talc (Mg-Silicate)		96	%
	Traces of magnesite, dolomite and chlorite			
	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
CHEMICAL PROPERTIES	MgO	XRF	31.5	%
	SiO2	XRF	61.0	%
	Al2O3	XRF	0.5	%
	Fe2O3	XRF	0.3	%
	Fe acid soluble	1mol/L HCl, 100°C	< 0.1	%
	Loss on ignition	DIN 51081/1000°C	6.5	%
	pH value	ISO 787/9	9	
OPTICAL PROPERTIES	Whiteness Ry	DIN 53163	92.5	%
	CIE L*, a*, b*	DIN 6174	97.0/0.0/1.0	
	Yellowness index	DIN 6167	1.9	
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	21	µm
	Median particle size D50	Sedigraph, ISO 13317	7	µm
	Fineness of grind	ISO 1524	50	µm
	Specific surface area	BET , ISO 4652	7	m²/g
	Oil absorption	ISO 787/5	34	g/100g
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.6	g/cm³
	Bulk density	DIN 53468	0.4	g/cm³
	Moisture	ISO 787/2	0.2	%



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