

## PLUSTALC H30

### Functional Extender

#### GENERAL INFORMATION

**PLUSTALC H30** is a hydrated magnesium silicate with chemical formula of  $Mg_3Si_4O_{10}(OH)_2$ .

**Plustalc grades** are 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 > 80  $\mu m$ , white and tinted primers.
- Polyester Putties
- Plastics: automotive/cabin, automotive/under the hood, domestic appliances, garden furniture, film, pipes, profiles

#### KEY PROPERTIES

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

#### INCORPORATION

**PLUSTALC H30** can be used as a functional extender to achieve following results:

- Excellent whitenes for matt architectural coatings, good barrier properties, good outdoor durability.
- Gives good sandability and storage stability for putties.
- Reduction  $TiO_2$ -content in putty formulations.

#### 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 H30** has a shelf life of 5 (five) years from the date of manufacture.

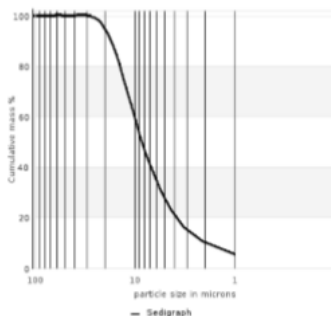
#### QUALITY ASSURANCE

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

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## PLUSTALC H30

<b>MINERALOGY</b>	Talc (Mg-Silicate)		96	%
	Traces of magnesite, dolomite and chlorite			
	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
<b>CHEMICAL PROPERTIES</b>	MgO	XRF	31.5	%
	SiO <sub>2</sub>	XRF	60.0	%
	Al <sub>2</sub> O <sub>3</sub>	XRF	0.6	%
	Fe <sub>2</sub> O <sub>3</sub>	XRF	0.5	%
	Fe acid soluble	1mol/L HCl, 100°C	< 0.1	%
	Loss on ignition	DIN 51081/1000°C	7.5	%
	pH value	ISO 787/9	9	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	91	%
	CIE L*, a*, b*	DIN 6174	96.5/0.0/1.4	
	Yellowness index	DIN 6167	2.7	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	26	µm
	Median particle size D50	Sedigraph, ISO 13317	8.3	µm
	Sieve residue	ISO 787/7, 45 µm	0.3	%
	Specific surface area	BET, ISO 4652	6	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	33	g/100g
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.65	g/cm <sup>3</sup>
	Bulk density	DIN 53468	0.45	g/cm <sup>3</sup>
	Moisture	ISO 787/2	0.2	%



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