

## PLUSTALC H10

### Functional Extender

#### GENERAL INFORMATION

**PLUSTALC H10** 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 top coats with dry film thickness of 30-40  $\mu m$
- Plastics: For antiblock, automotive cabin, foam, film, nucleation, profiles, packaging, sheets and engineered plastics
- Polyester Putties

#### KEY PROPERTIES

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

#### INCORPORATION

**PLUSTALC H10** can be used as a functional extender to achieve following results:

**Paints & Coatings:** Booster of white opacity, matting of low PVC paints, good barrier properties, good outdoor durability, finetuning of rheological properties.

**Plastics:** Consistent color, low abrasion and longer tool life. Compacted grades are available for low dust generation and easy handling resulting in higher compounding throughput.

#### LEVELS OF USE

Typical use levels for paints and coatings applications are 5 - 15 % 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 H10** has a shelf life of 5 (five) years from the date of manufacture.

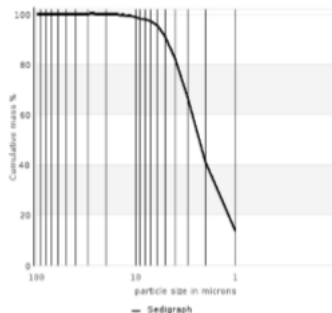
#### QUALITY ASSURANCE

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 H10

<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	%
	Water solubles	ISO 787/3	0.2	%
	pH value	ISO 787/9	9	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	93	%
	CIE L*, a*, b*	DIN 6174	97/0.0/1.0	
	Yellowness index	DIN 6167	2.0	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	8.5	µm
	Median particle size D50	Sedigraph, ISO 13317	2.2	µm
	Fineness of grind	ISO 1524	33	µm
	Specific surface area	BET, ISO 4652	10.5	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	47	g/100g
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.3	g/cm <sup>3</sup>
	Bulk density	DIN 53468	0.2	g/cm <sup>3</sup>
	Moisture	ISO 787/2	0.2	%



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