

PLUSTALC H05

Functional Extender

GENERAL INFORMATION

PLUSTALC H05 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.

- **Paints & Coatings:** very high whiteness architectural and industrial top coats with dry film thickness of 20 - 30 μm , tinting pastes and printing inks.
- **Plastics:** for antiblock, automotive cabin, foam, film, nucleation, packaging, sheets and engineered plastics.

KEY PROPERTIES

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

INCORPORATION

PLUSTALC H05 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, efficient pigment spacer.

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 H05 has a shelf life of 5 (five) years from the date of manufacture.

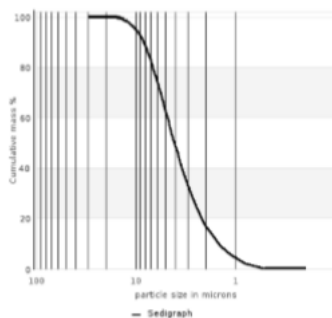
QUALITY ASSURANCE

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 H05

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	%
	SiO ₂	XRF	60.0	%
	Al ₂ O ₃	XRF	0.6	%
	Fe ₂ O ₃	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	
OPTICAL PROPERTIES	Whiteness Ry	DIN 53163	93.5	%
	CIE L*, a*, b*	DIN 6174	97.5/0.0/1.0	
	Yellowness index	DIN 6167	1.9	
PHYSICAL PROPERTIES	Top cut D98	Sedigraph, ISO 13317	7	µm
	Median particle size D50	Sedigraph, ISO 13317	1.8	µm
	Fineness of grind	ISO 1524	20	µm
	Specific surface area	BET, ISO 4652	12	m ² /g
	Oil absorption	ISO 787/5	49	g/100g
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.3	g/cm ³
	Bulk density	DIN 53468	0.2	g/cm ³
	Moisture	ISO 787/2	0.2	%



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