

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.

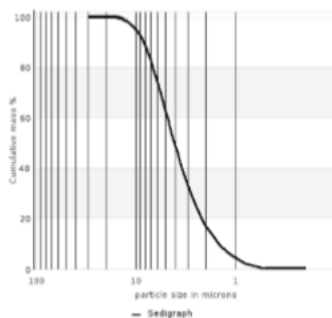
QUALITY ASSURANCE

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

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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 | % |
| | 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 | % |



NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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