

## PLUSTALC H05C

### Functional Extender

#### GENERAL INFORMATION

**PLUSTALC H05C** 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.

- 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 H05C** can be used as a functional extender to achieve following results:

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 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 H05C** has a shelf life of 5 (five) years from the date of manufacture.

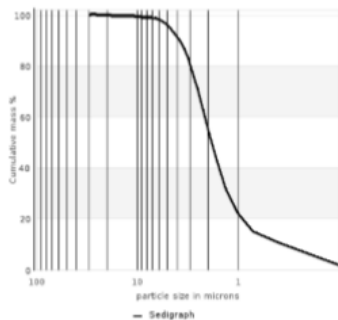
#### QUALITY ASSURANCE

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 H05C

|                            |  |                      |              |                   |
|----------------------------|--|----------------------|--------------|-------------------|
| <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            | 93.5         | %                 |
|                            | CIE L*, a*, b*                             | DIN 6174             | 97.5/0.0/1.0 |                   |
|                            | Yellowness index                           | DIN 6167             | 1.9          |                   |
| <b>PHYSICAL PROPERTIES</b> | 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 <sup>2</sup> /g |
|                            | Oil absorption                             | ISO 787/5            | 49           | g/100g            |
|                            | Hardness                                   | Mohs                 | 1            |                   |
|                            | Tapped density                             | ISO 787/11           | 1.0          | g/cm <sup>3</sup> |
|                            | Bulk density                               | DIN 53468            | 0.8          | g/cm <sup>3</sup> |
|                            | Moisture                                   | ISO 787/2            | 0.2          | %                 |



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