

ALPHA TALC[®] CT P FOR PLASTICS

Product Properties

ALPHA TALC CT P is an industrial mineral with high whiteness and the possibility to significantly modify several properties of polymers. Due to special procedures, the natural lamellarity of the talc is kept. The application of this material leads to modified polymers by maximisation of their mechanical performance. Addition of **ALPHA TALC CT P** helps to save cost through reduction of polymer amount in compounds. Application of this product enhances important mechanical (rigidity, tensile strength, shrinkage) and thermal properties of polymers (PP, PA). The talc addition plays an important role in various applications, e.g. automotive uses: instrument panels, consoles, grills and head liners with improvement of the impact resistance and lowering of the thermal expansion of the end-products.

UNIVERSAL PERFORMER FOR POLYMERS

Key Benefits at a glance

- Broaden application spectrum in polymers
- Increasing of the mechanical stability
- High whiteness of powder
- Exceptional rigidity of the compounds
- Reduction of the permeability
- Excellent rheological properties
- Enhancement of thermal properties



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Introduction

Due to platy-shaped particles, **ALPHA TALC CT P** acts as industrial mineral in plastics with improvement of the useful properties due to formation of bonding between talc particles and polymers. The addition of talc increases the tensile strength, reduces shrinkage and improves the dimensional stability and rigidity of compounds during employment.

Mineralogical composition

Talc:	~ 95 %
Magnesite / Dolomite / Chlorit	< 3 %
Accessory minerals	~ 2 %
Loss of ignition (LOI _{1000 °C})	6 %

Chemical and Physical Data

Product	D50 [µm]	Sieve residue [%]	Whiteness Ry	BET
<i>ALPHA TALC CT 8 P</i>	2.8	32 µm < 0.1	96	20
<i>ALPHA TALC CT 30 P</i>	6.0	63 µm < 0.1	95	10
<i>ALPHA TALC CT 45 P</i>	6.0	71 µm < 0.1	95	10

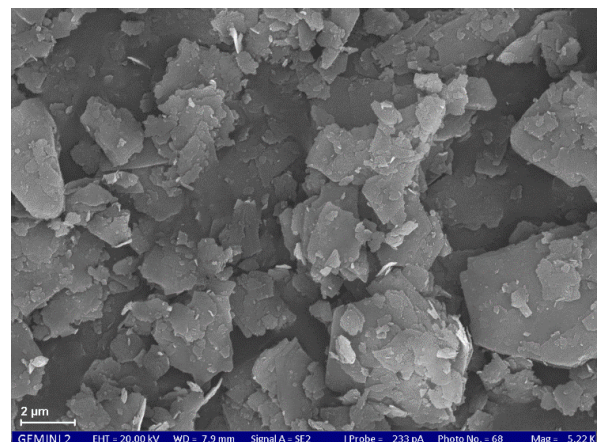
Application examples

Plastic compounds:

- Improvement of rigidity
- Increase of tensile strength
- Improvement of thermal properties
- Reduction of shrinkage

Plastic components:

- High impact resistance
- Development of stiffness
- Improvement of dimensional stability
- Enhanced reinforcing properties
- High filling degree of end-product



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