

ALPHA TALC CT P FOR PLASTICS

Product Properties:

ALPHA TALC CT P is a functional filler with high whiteness and possibility to significantly modify several properties of polymers. Due to special milling 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 functional filler 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



Picture: emeric-deroubaix-LkTDtu44S_4-unsplash
2019-08-29/Version 1/OK

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ALPHA TALC CT P FOR PLASTICS

Introduction:

Due to platy-shaped particles, **ALPHA TALC CT P** acts as functional filler in plastics with improvement of the useful properties of the filled material due to formation of bonding between filler 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 %.

LOI₁₀₀₀ = 6 %

Physical Data:

	D ₅₀ [µm]	Ry	Top cut = Sieve residue [%]					BET [m ² /g]
			> 32 µm	> 40 µm	> 63 µm	> 71 µm	> 125 µm	
ALPHA TALC CT 8 P	2,8	96	< 0,1					20
ALPHA TALC CT 15 P	3,0	95		< 0,1				15
ALPHA TALC CT 30 P	6,0	95			< 0,1			10
ALPHA TALC CT 45 P	6,0	95				< 0,1		10
ALPHA TALC CT 60 P	6,5	93					< 0,1	5

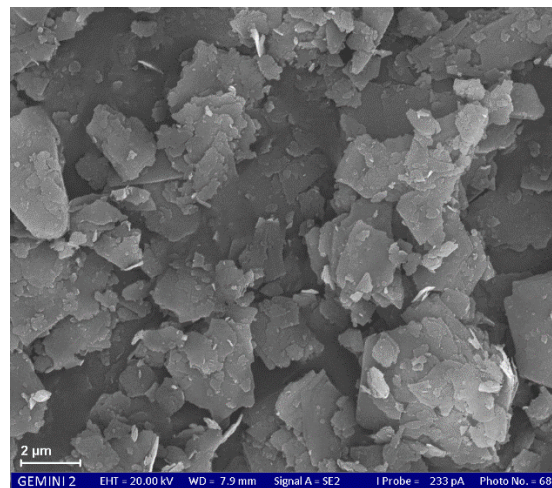
Application examples:

Plastics 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



GEMINI 2 EHT - 20.00 kV WD - 7.9 mm Signal A - SE2 I Probe - 233 pA Photo No. - 68
Picture: ALPHA CALCIT; REM by Ruhr-University-Bochum.

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