

# AnTec AT445

## Surface-treated Aluminum Silicate

### Product Description

AnTec AT445 is a surfaced-treated aluminum silicate with fine particle size and high brightness. It has been dehydroxylated by controlled heat treatment for removal of crystalline-bound hydroxyl groups and to improve brightness. It has been surfaced treated by amino coupler. AnTec AT445 is highly pulverized with Anpeak patented residue removal technology for excellent dispersion.

### Application Information

AnTec AT445 is a high-performance reinforcing extender designed to be compatible in polyamides, polyesters, epoxy resins, phenolic resins and other polar polymers. AnTec AT445 reduces water absorption, increases tensile strength and flexural strength, increases heat deformation temperature and improves dimensional stability when compounded in polymeric systems. It has low residue and fine particle size for improving impact strength.

Typical applications: Polyamides (6, 66 and blends), TPE / TPO, epoxy resins, phenolic resins and other polar polymers.

### **Typical Properties**

Physical Form	Highly Pulverized Powder
GE Brightness (%)	>97.0
ISO Brightness (%)	>95.0
Screen Residue, 325 Mesh (%)	<0.005*
Free Moisture @ 105 deg C (%) as produced	<0.5
pH (28% solids)	6.0-7.0
Specific Gravity (g/cm <sup>3</sup> )	2.63
Median Size(μm)	1.0*
Bulk Density (kg/m <sup>3</sup> )	450
Oil Absorption, Rubout (ASTM D-281)	62

### **Chemical Components (%)**

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	CaO	MgO
52.0±1	45.0±1	≤0.50	≤0.80	≤0.10	≤0.20	≤0.50	≤0.20

\* Values are based on untreated product.

**Anpeak Specialty Minerals Co.,Ltd is ISO 9001 and ISO 14001 certified.**

The above typical properties are for general information only and should not be used for specification purposes. Performance characteristics may vary depending on specific application. All products should be tested in customer's formulation prior to use.

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