

AnTec VT77

Surface-treated Aluminum Silicate

Product Description

AnTec VT77 is a surface-treated aluminum silicate featuring high brightness and ultrafine particle size. It has been dehydroxylated by controlled heat treatment for removal of crystalline-bound hydroxyl groups based on particle size screening of pure aluminum silicate. AnTec VT77 is highly pulverized for better dispersion. It is surface treated with a vinyl coupler and has been processed with Anpeak patented technology to remove residue for excellent dispersion.

Application Information

AnTec VT77 is a high performance reinforcing extender designed to reduce water transmission in cross-linked polyethylene and EPR polymer systems when used in electrical applications for improving insulation property. The reduction in residue helps improvement in electrical insulation property as well as extrusion processability.

AnTec VT77 provides excellent initial and aged wet electrical properties. It is recommended for use with peroxide cure systems.

Typical applications: Phenolics, EPR power cables, silicon rubbers, TPE / TPO, electrical connectors, electrical capacitors, polyester gel coats, and other applications where insulation property is desired.

Typical Properties

Physical Form	Highly Pulverized Powder
GE Brightness (%)	>93.0
ISO Brightness (%)	>91.0
Screen Residue, 325 Mesh (%)	<0.003*
Free Moisture @ 105 deg C (%) as produced	<0.5
pH (28% solids)	6.0-7.0
Specific Gravity (g/cm ³)	2.53
Median Size(μm)	0.60*
Bulk Density (kg/m ³)	350
Hegman	>4
Volume resistivity(in PVC wire & cable Ω.m)	8×10 ¹²

Chemical Components (%)

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	K ₂ O	Na ₂ O	CaO	MgO
52.00±1	45.00±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.

Anpeak Specialty Minerals Co., Ltd.

Beiping Circular Economy Park, PingLu District, Shuozhou City, Shanxi Province, PR China 036800

Tel +86 349 6076206 Fax: +86 349 6076204 Email: victor.he@anpeak.com.cn helen.mao@anpeak.com.cn

http://www.anpeak.com.cn