

CFS-A01, MH/AH Powder Dispersing Agent

CFS-A01, MH/AH powder dispersing agent is a hybrid modified functional organosiloxane, containing vinyl, alkoxy and alkyl functional groups. It can be coupled with inorganic fillers such as aluminum hydroxide, magnesium hydroxide to improve fillers and organic systems (such as polyolefin (PP/PE), EVA, thermoplastic elastomer. It is also suitable for other inorganic fillers such as kaolin, titanium dioxide and talcum powder.

Typical Benefits:

- Improve the dispersibility of fillers and increase the amount of filler;
- Increase the hydrophobicity of fillers and improve the electrical properties (dielectric constant, volume resistivity) under humid condition;
- Improve heat resistance and improve creep at high temperature;
- Improve the mixing process stability and production efficiency.

Physical Properties:

Appearance	Colorless transparent liquid
Freezing Point (°C)at 760mmHg	<-16
Flash Point(°C, Closed Cup)	13
Density(ρ_{25}) g/cm ³	0.930-0.940

Applications:

CFS-A01 can be used to replace A-172 silane or act as an economic alternative to Dynasylan® 6490 or Dynasylan® 6598.

CFS-A01 can be used for the treatment of mineral fillers and inorganic surfaces, normally in pretreatment or in-situ blending method (i.e. in-situ addition of resin or rubber blending). When applied to the treatment of aluminum hydroxide or magnesium hydroxide powder in low smoke halogen-free cables, we recommend the pretreatment method.

Technical Data Sheet

Methods of Use:

CFS-A01 can be directly added or sprayed on a well-mixed mineral filler. This product can be used in the form of pure product or in alcohol dilution solution, aromatic hydrocarbon or anhydrous alcohol dilution, the dosage is generally 1% of the weight of mineral filler (for 1~10 microns particle size). Substrates with larger surface area should use more of this product, usually 2-3% of the weight of mineral fillers.

When CFS-A01 is used as a resin or rubber additive, it should be added to the extruder or internal mixer according to the proportion of 1% of the weight of mineral filler (for 1-10 microns particle size). In some cases, it is necessary to increase the proportion of CFS-A01 to 2-3%.

Packaging:

CFS-A01 is offered in 25L PE pails and 200L PVF steel drums.

Please contact Co-Formula team for any special packaging request.

Storage:

CFS-A01 should be stored in a cool, well-ventilated place, and avoid exposure to humidity.

CFS-A01 should be stored in its original containers and used up as soon as possible after opening.

When stored in a strictly sealed and unopened container, CFS-A01 has a shelf life of 12months.