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Cloisite® 93A

Typical Physical Properties Bulletin

Description:

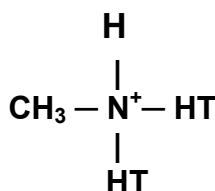
Cloisite® 93A is a natural montmorillonite modified with a ternary ammonium salt.

Designed Used:

Cloisite® 93A is an additive for plastics and rubbers to improve various physical properties, such as reinforcement, HDT, CLTE, synergistic flame retardant and barrier.

Typical Properties:

<u>Treatment/Properties:</u>	Organic Modifier (1)	Modifier Concentration	% Moisture	% Weight Loss on Ignition
Cloisite® 93A	M2HT	95 meq/100g clay	< 2%	39.5%



Where HT is Hydrogenated Tallow (~65% C18; ~30% C16; ~5% C14)

Anion: HSO_4

(1) M2HT: methyl, dihydrogenatedtallow ammonium

Typical Dry Particle Sizes: (microns, by volume)

10% less than:	50% less than:	90% less than:
2µm	6µm	13µm

Color: Off White

Density:

Loose Bulk, lbs/ft ³	Packed Bulk, lbs/ft ³	Density, g/cc
10.56	18.03	1.88

X Ray Results: $d_{001} = 23.6 \text{ \AA}$

For additional information or technical assistance contact Southern Clay Products, Inc. toll free at 800-324-2891.

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