

AFCONA-K201-22



Chemical Composition

Solution of high molecular weight polymeric surfactant.

Product general description

High molecular weight wetting & dispersing agent for the preparation of carbon nanotubes and conductive carbon black concentrates.

Product properties

AFCONA-K201-22 is primarily used to enhance the wetting & dispersing performance in carbon nanotubes and conductive carbon black concentrates by improving grinding efficiency and reducing the viscosity.

AFCONA-K201-22 can also reduce the viscosity of cathode slurry in lithium-ion battery systems, optimizing flow-ability and flocculation state, and increase powder loading capacity.

Note: AFCONA-K201-22 contains specially-structured functional materials that may develop slight sedimentation during prolonged storage. Overall performance won't be affected if adequate additional shear is applied before its use.

Product Specification

Non-volatile matter	52 - 56% (150°C, 0.5h)
Solvent	N-Methylpyrrolidone
Density	1.11 - 1.15 g/cm ³ (20°C)
Acid value	18 - 28 mg KOH/g
Amine value	25 - 35 mg KOH/g
Flash point	86°C
Appearance	Black viscous liquid (25°C)

Addition and dosage

Calculation method for the required amount of active ingredient on pigment:

Carbon nanotubes	: 20 - 40%
Conductive carbon blacks	: 30 - 50%

Incorporation

AFCONA-201-22 should be stirred and uniformly dispersed with NMP, then the powder material should be added slowly under shear force.

Storage

AFCONA-K201-22 shall be stored in a cool dry place at temperature above 4°C. Shelf-life is 1 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 220kg non-returnable containers

For product safety information: please take reference of SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.