

Efka[®] FA 4663

general

- dispersant and grinding aid
- anti-settling and anti-floating agent for paints, coatings and inks
- gelling aid for organically modified bentonite

chemical nature

blend of an electroneutral salt of a polycarboxylic acid and amine derivatives in hydrocarbon solvent

Properties

physical form

clear, brownish liquid

storage

Efka[®] FA 4663 should be stored in tightly closed containers and in a cool place.

typical properties

solvents	hydrocarbon
density at 20 C (68 °F)	~ 0.90 g/cm ³
solid content	~ 46%
acid value	~ 56 mg KOH/g
nitrogen content	~ 1.41%

Application

Efka[®] FA 4663 is an universally applicable additive for non-aqueous coatings. It has proven its value in particular in systems based on alkyd resins, alkyd/melamine resins, acrylic and epoxy resins, chlorinated rubber, linseed oil/stand oil, etc. If some linear binders which contain hydroxyl groups are used with our product, thixotropy might occur. Efka[®] FA 4663 was tested with good results in systems containing the following pigments or fillers:

• titanium dioxide	• toluidine red
• zinc white	• hansa yellow
• lithopone	• phthalocyanine green
• red iron oxide	• phthalocyanine blue
• yellow iron oxide	• carbon black
• black iron oxide	• blanc fixe
• natural ochre	• heavy spar
• zinc yellow	• dolomite
• iron blue	• talc
• manganese violet	• asbestinered
• lead	• china clay
• zinc dust	

Efka® FA 4663 is an excellent gelling aid for organically modified bentonite. It offers the following advantages over the use of polar solvents such as methanol:

- a pumpable gel consistency can be obtained
- easy incorporation in the coating system
- increased storage stability of the gels
- incorporation of the dispersed paste is possible after milling
- dispersion is easier to achieve
- synergistic effect in sedimentation and floating

recommended concentrations

A dosage of 0.1 – 2.0% calculated on total weight of pigments and fillers.

The exact amount to be used should be determined by appropriate tests. Efka® FA 4663 is usually incorporated during pigment grinding, especially when floating effects have to be avoided. Addition later in the process is possible, however, only if care is taken to ensure good dispersion.

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Validity

This Technical Data Sheet is valid for all versions of the Efka FA 4663; Efka FA 4663, Efka FA 4663 EG, Efka FA 4663 NM, Efka FA 4663 NU, Efka FA 4663 SJ.

Safety

When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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