

WACKER® AF 21

Functional Silicone Fluids

WACKER® AF 21 is a premium modified amino functional fluid.

Properties

WACKER® AF 21 yields an extremely soft hand with little to no shade change most notably yellowing due to normal textile processes. WACKER® AF 21 gives a less hydrophobizing effect on natural fibers than standard amino softeners. WACKER® AF 21 will also give some wrinkle recovery and improved fabric elasticity.

Technical data

General Characteristics

Property	Condition	Value	Method
Non volatile	-	92 %	-
Amine number/Amine Value	-	0.18/10	-
Viscosity, dynamic	-	1000 - 8000 mPa·s	-
Appearance	-	Clear , yellowish oil	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

WACKER® AF 21 is particularly suitable as an active substance in non yellowing softener formulations for the impregnation of fibers and textiles. WACKER® AF 21 imparts a very soft and drapable handle to woven and knitted fabrics. WACKER® AF 21 improves the wash-and-wear properties and the crease recovery angle, sewability and reduces abrasion loss. The effects are fast to washing and dry cleaning. WACKER® AF 21 has no effect on the degree of white in a softener formulation when usual application conditions are adhered to. As a rule no adverse effect on the shade or color fastness properties of colored goods is observed.

Processing

WACKER® AF 21 can be applied from solution, or emulsion. Suitable solvents are aliphatic and aromatic hydrocarbons, chlorinated hydro-carbons, esters, higher alcohols, and ketones.

Most textile processes are water based. Hence WACKER® AF 21 is mainly applied from emulsion. WACKER® AF 21 is suitable for the formulation of micro emulsions and macro emulsions.

Emulsions made with WACKER® AF 21 are diluted to the optimum concentration for the specific fabric. Application can be done by padding or exhaustion. WACKER® AF 21 can be utilized as the active substance in softener emulsions or in combination with other components, e.g. paraffin waxes, organic softeners, etc. Compatibility of the components has to be checked in each individual case.

Typical Formulation

50.0 parts demineralized water

5.0 parts tridecyl alcohol 6EO

3.0 parts tridecyl alcohol 9EO

4.0 parts diethylene glycol monobutylether

20.0 parts WACKER® AF 21

17.9 parts demineralized water

0.1 parts conservation agents

The emulsifier is dissolved in the demineralized water, then gradually add WACKER® AF 21 and mix until the product is clear and homogenous. Finally, the second amount of water and conservation agent are added

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code WACKER® AF 21



For technical, quality or product safety questions, please contact:

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