



Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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PRODUCT LITERATURE

ECOFLUID - 8603

Product Information

Ecofluid-8603 is a medium viscosity reactive mono-amino functional polydimethyl siloxane fluid. Ecofluid-8603 may be used alone or in conjunction with other silicone fluid or with appropriate organic softeners, this compatibility allows the formulation of specialty softener blends.

Ecofluid-8603 emulsion imparts very soft, drapable and elastic handle to woven and knitted fabrics. Ecofluid-8603 emulsion is considered to be ideal softening agent for cotton or Cot/PES blends. It improves wash and wear properties, crease recovery angle, sewability, tear strength and reduces abrasion loss. The effects are reasonably fast to washing and dry cleaning.

Key Features & Benefits

Key Features	Benefits
Durable	Reasonably durable to washing and dry cleaning
Multi-functional	Imparts softness Improves sewability and tear strength, Reduces abrasion loss

General Characteristics

Physical appearance	: Colourless viscous fluid
Specific Gravity at 25 deg.C	: 0.98 +/- 0.02
Refractive index	: 1.403 to 1.409

Application

Padding Process:

Dosage	: 15-20 g/l (30% emulsion)
Pick-up	: 65-70%
Bath pH	: 5.0-6.0
Drying	: 130-160 deg.C

Exhaust Process in winch or garment machine:

Dosage	: 1.5-2% (30% emulsion)
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Bath pH : 5.0-6.0
Bath Temp : 30-40 deg.C
Time : 20-30 mins.

Instructions For Dilution

Emulsification:

It can be easily emulsified into stable micro emulsion by medium to high shear force mixer.

Typical formulation for micro-emulsion

	Weight parts -----
Ecofluid-8603	16.0
* TDA 6 EO	6.0
* DA 7 EO	6.0
TDA 12 EO	2.0
Water-1	15.0
Water-2	20.0
Acetic acid	0.3-0.4
Water-3	35.0
Butyl di-glycol	1-2% (co-surfactant, if necessary)

* TDA: tridecyl alcohol ethoxylate

* DA : decyl alcohol ethoxylate

Method:

- Take Ecofluid-8603 & surfactants in a SS vessel and stir for 20-25 mins.
- Add water-1 gradually under constant stirring and stir for 30 mins.
- Add water-2 and stir for 20 mins.
- Add water-3 and acetic acid; mix and stir for further 10-15 mins.
- Add 1-2% co-surfactant if necessary
- Testing



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Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]
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