



EUROWET PG70 EUROWET SE75

highly efficient
wetting agents

PRODUCT DESCRIPTION

Eurowet PG70 and Eurowet SE75 are anionic surfactants used in a wide variety of applications for their proven excellent wetting and dispersing properties.



Chemical description

Eurowet PG70: diethylhexyl sodium sulfosuccinate in water and propylene glycol

Eurowet SE75: diethylhexyl sodium sulfosuccinate in water and ethanol

BENEFITS

- Powerful wetting agent
- Surface tension depressant
- Rapid migration to interfaces
- Dispersant
- Emulsifier
- Penetrating agent
- Excellent solubility
- Poor foaming

APPLICATIONS

Key areas

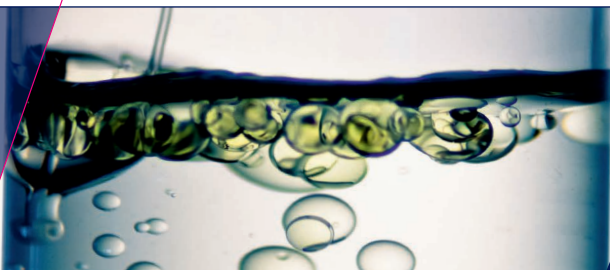
- inks
- adhesives
- coatings (overprint varnishes)
- detergents (window cleaners)
- emulsion polymerization



Other industries

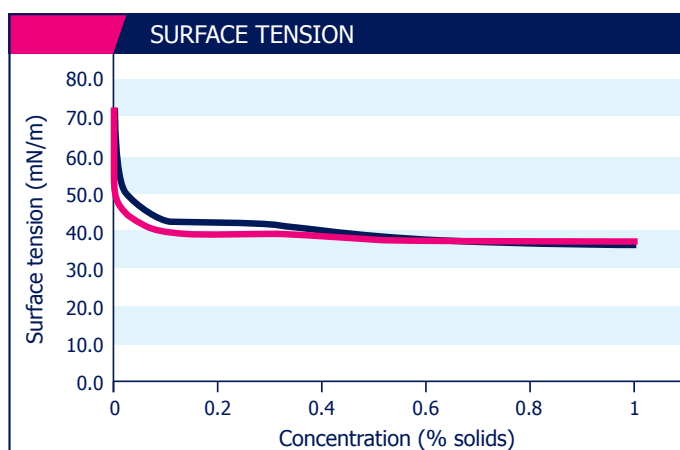
- textile
- paper
- petroleum
- rubber
- metal
- paint
- plastic
- mining
- construction
- crop protection
- personal care

PROPERTIES



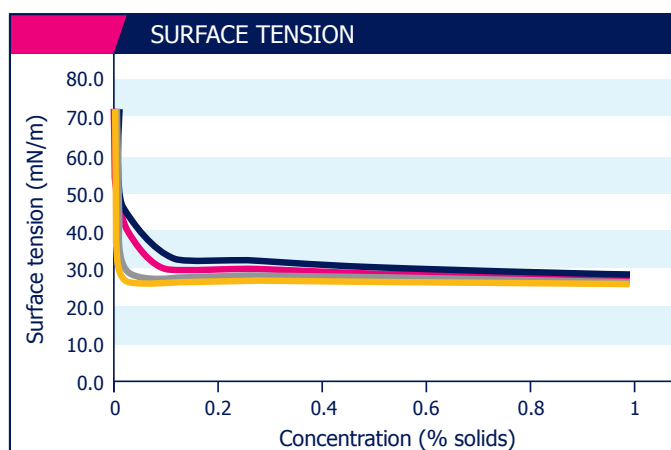
SURFACE TENSION

Surface tension measurements are performed using the du Noüy ring method on dilutions of Eurowet PG70 and Eurowet SE75 in water as well as in presence of electrolyte. Fast decrease of surface tension is observed with increasing amount of surfactant. Excellent salt tolerance and faster decrease of surface tension are measured in presence of 0.5% sodium chloride.



Eurowet PG70

Eurowet SE75



Eurowet PG70

Eurowet SE75

Eurowet PG70
and 0.5% NaCl

Eurowet SE75
and 0.5% NaCl

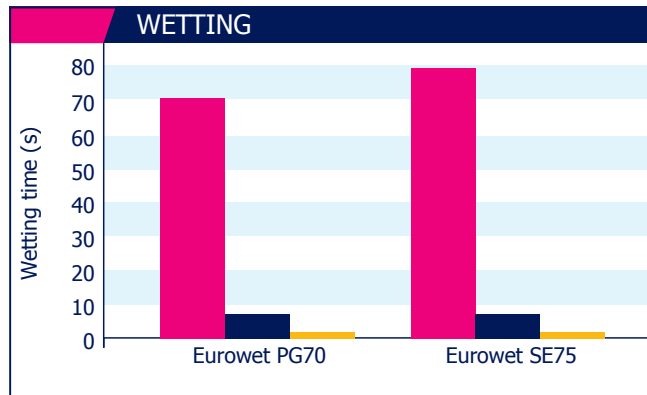
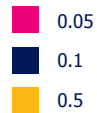
WETTING PROPERTIES THROUGH ABSORPTION



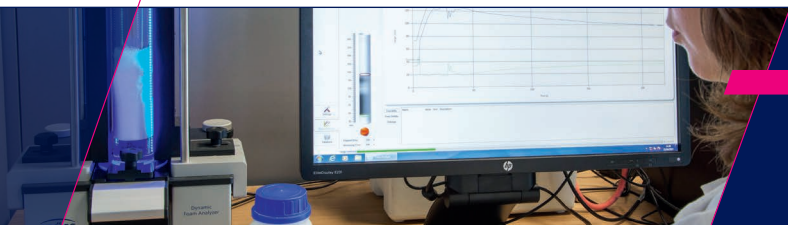
Draves test according to ISO method 8022 is used in order to illustrate the wetting ability of a surfactant solution by displacing air from a standardized piece of cotton. The shorter the time required until the cotton piece starts to sink, the better the wetting performance of the surfactant solution. Eurowet PG70 and Eurowet SE75 show excellent wetting properties at low concentrations of use (from 0.15% w/w dosage).

TIME	WETTING BEHAVIOUR
t < 15s	Good wetting agent
15s < t < 60s	Moderate wetting agent
t > 60s	Bad wetting agent

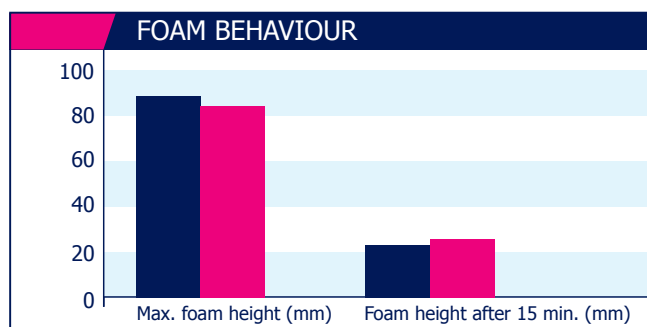
Concentration (% solids)



FOAM BEHAVIOUR



Foam formation and foam stability of 0.05% solids solutions of Eurowet PG70 and Eurowet SE75 are studied using the Krüss dynamic foam analyzer. Products are characterized by moderate foam formation and poor foam stability.



APPLICATION



Safe Use of Eurowet PG70

The results of an in vitro potential eye irritancy test (bovine corneal opacity and permeability assay OECD 437) have shown that a 10% aqueous solution of Eurowet PG70 (pH ca 6.0) is not corrosive which results into following classification limits:

CONCENTRATION RANGE	CLASSIFICATION	CLP pictogram
C > 10% Eurwet PG 70	H318	GHS05
1.4% =< C =< 10% Eurowet PG70	H319	GHS07
C < 1.4% Eurowet PG 70	-	-



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