Nouryon

Berosol™ EC is an optimized surfactant blend that offers a way to introduce easy-clean benefits to hard surface cleaning formulations through temporary hydrophilic surface modification. Berosol™ EC can be used to clean ceramic tile, glass or porcelain in the form of ready to use or concentrated formulations, sprays and wipes.

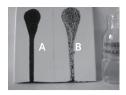
Berosol[™] EC

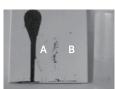
Easy-clean solutions



Berosol™ EC provides for easier removal of greasy soils from ceramic tile

Test Method: Surface was treated with the formulation, sprayed and wiped. 1 gram of soil* was weighed on each side (untreated and treated). Tile was held in vertical position for 15 sec then rinsed carefully with water.





CLEANER APPLIED

- A Control (untreated)
 B Treated with Berosol™ EC formulation
- *Soil: Lambert soil, vegetable oil and water

What is Berosol™ EC?

- A multifunctional, readily biodegradable, and water soluble cleaning product
- Easy to formulate with builders, complexing agents, acids and many other surfactants
- Berosol™ EC is an optimized surfactant blend that delivers long-lasting cleaning properties
- Berosol[™] EC is TSCA listed

Why use Berosol™ EC?

- To make hard surface cleaners that modify surfaces while cleaning to generate "easy-clean" behavior:
 - Less effort to clean next time around, and/or
 - Less frequent cleaning required
- To deliver anti-soiling and anti-fogging properties to surfaces:
 - Prevents soil deposition by making surfaces very hydrophilic
 - Provides excellent wetting properties which will prevent fogging on glass windows and mirrors
- Surfaces cleaned with formulations containing Berosol™ EC:
 - Resist soap scum build-up
 - Greasy soil is more easily removed

TYPICAL PROPERTIES OF Berosol™ EC

Active content	50%
Appearance, 20°C	Liquid
pH, 1% in water	6-8
Clear point	-2°C
Density, 20°C	1095 kg/m³
Viscosity, 20°C	230 cP
Surface tension (0.1% solution)	28.3mN/m

SOLUBILITY

Ethanol, isopropyl alcohol, low aromatic solvent, propylene glycol	Insoluble	
Water	Soluble	

SURFACE ACTIVE CHARACTERISTICS

Foam height, 50°C, 0.05% (Ross-Miles)	Immediately 140 mm,
	After 5 min. 100 mm
Surface tension, 25°C, 0.1% DI 53 914 (Du Noüy)	30 mN/m
Wetting power, 25°C, 0.1% (Draves)	95 sec