

Sodium Dodecyl Benzene Sulphonate (Sodium Dodecylbenzenesulfonate)

INCI Name: Sodium Dodecylbenzenesulfonate

Description

Kemsurf SBE30 is an anionic surfactant based on sodium dodecylbenzene sulphonate, supplied as a 30% active aqueous solution. It provides excellent detergency, wetting, and emulsification, making it a highly versatile ingredient for a wide range of cleaning and industrial formulations.

Kemsurf SBE30 exhibits rapid foam generation, good foam stability, and strong surface-active performance, enabling effective removal of oily, particulate, and hydrophobic soils. Its liquid form allows for easy handling, pumping, and incorporation into both neutral and alkaline systems.

The product demonstrates good stability in the presence of builders, electrolytes, and hard water, and is widely used in household cleaners, industrial and institutional detergents, and other applications requiring reliable anionic surfactant performance.

Key Features

- Strong detergency and emulsification, making it effective in cleaning and polymerisation applications.
- High stability and compatibility, performing well with other anionic/nonionic surfactants across alkaline, mildly acidic, and hard/soft water conditions.
- Good wetting and foaming performance, supporting uses in household cleaners, industrial cleaning, and textiles.

Specification

Appearance at 25°C:	Clear viscous yellow liquid free from foreign matter
SAM % (equivalent weight 337):	29.0 - 31.0
pH (5% aqueous):	6.5 - 8.5

Typical Properties

Composition:	Sodium dodecyl benzene sulphonate
CAS number:	68411-30-3
Odour:	Characteristic
Viscosity at 25°C (cP):	3810
Specific gravity at 25°C:	1.044
Solubility in water:	Soluble
Pour point °C:	<10
Flash point closed cup °C:	>100
Surface tension at 0.1% aqueous (mN/m):	34.45

Typical properties are based on our own measurements and do not constitute part of the sales specification

Applications

Kemsurf SBE30 finds use across a wide range of household, industrial, and functional formulations due to its strong detergency, wetting, and emulsifying performance. Typical applications include:

Household General-Purpose Cleaners

- Provides effective soil removal and foaming in multi-surface formulations.

Hard-Surface Cleaners

- Offers excellent wetting and detergency for kitchen, bathroom, and general hard-surface applications.

Household Detergents

- Delivers strong cleaning performance in both liquid and powder systems.

Industrial & Institutional Detergents

- Suitable for a wide range of heavy-duty and commercial cleaning products.

Emulsion Polymerisation

- Functions as an anionic emulsifier for producing stable polymer emulsions.

Dye Dispersant for Textile Applications

- Helps disperse dyes uniformly for improved colouration performance.

Textile Scouring Agent

- Provides effective wetting and removal of processing oils and impurities.

Ore Flotation

- Acts as a collector and wetting agent to assist mineral separation.

Air Entrainment in Concrete and Gypsum Board

- Supports controlled air incorporation to improve workability and performance.

Fruit and Vegetable Washing

- Provides wetting and soil removal for wash processes where suitable.

Packaging and Storage

Kemsurf SBE30 can be supplied in bulk road tankers, IBC's and 200kg or 25kg nett drums.

Stainless steel, polyethylene or glass lined equipment is necessary for the storage of Kemsurf SBE30 in order to prevent corrosion and subsequent contamination. This material can separate on standing and at low temperatures. May require agitation and warming prior to use.

Regulatory Information

Please refer to Safety Data Sheet.

All information, recommendations, and suggestions provided in this literature are based on data and tests believed to be reliable. However, it is the user's responsibility to determine the suitability of the products described for their specific applications. For non-English datasheets, translations have been generated using automated translation software; Lankem accepts no liability for any errors that may arise as a result of this process. Typical properties are based on our own measurements and do not form part of the sales specification.