

Sodium Dodecyl Benzene Sulphonate (Sodium Dodecylbenzenesulfonate)

INCI Name: Sodium Dodecylbenzenesulfonate

Description

Kemsurf SX85 is a high-active anionic surfactant based on sodium dodecylbenzene sulphonate, supplied as an 85% active material. It provides excellent detergency, wetting power, and emulsification across a wide variety of aqueous and solvent-based systems. Due to its strong surface-active properties, Kemsurf SX85 is highly effective in removing oily, particulate, and hydrophobic soils.

The product exhibits rapid foaming and good foam stability, making it suitable for both low- and high-foaming formulations depending on use level and co-surfactants selected. Kemsurf SX85 also offers good electrolyte tolerance and performs well in acidic, neutral, and alkaline environments.

Its versatility and robust cleaning efficiency make it widely used in detergents, industrial cleaners, emulsifiable concentrates, agrochemical formulations, and general-purpose surfactant systems requiring strong anionic character.

Key Features

- High 85% active content, providing strong surfactant and wetting performance.
- Excellent wetting and water solubility, ideal for wettable powders and detergent systems.
- Versatile use across detergents, agrochemical powders, emulsion polymerisation, mortar plasticisation, and ore flotation.

Specification

Appearance at 25°C:	Off white powder
SAM % (equivalent weight 348):	78.0 - 87.0
pH (1% aqueous):	9.0 - 11.0

Typical Properties

Composition:	Sodium dodecyl benzene sulphonate
CAS number:	68411-30-3
Odour:	Odourless
Physical form:	Powder
Activity:	85%
Bulk density at 20°C:	0.4 g/cm ³
Surface tension:	~34.45 mN/m
Solubility in water:	Soluble

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

Applications

Kemsurf SX85 is used across a wide variety of industries due to its strong anionic surface-active properties. Typical application areas include:

Wettable Powders in Agrochemicals

- Acts as a wetting and dispersing agent to ensure uniform distribution of active ingredients.

Household Detergents

- Provides excellent detergency and foaming for general cleaning formulations.

Industrial and Institutional (I&I) Detergents

- Effective for heavy-duty cleaning, degreasing, and hard-surface applications.

Emulsion Polymerisation

- Functions as a primary emulsifier for stable latex production.

Plasticiser in Mortar

- Improves workability and flow characteristics in construction materials.

Ore Flotation

- Enhances separation efficiency in mineral processing operations.

Air Entrainment in Concrete and Gypsum Board

- Helps introduce controlled air content for improved strength and performance.

Packaging and Storage

Kemsurf SX85 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 SX85 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.