

Sodium Petroleum Sulfonate

Brown liquid or powder surfactant

Product Description

Sodium petroleum sulfonate used in agriculture as a wetting agent and in oil field applications.

Certificate of Analysis

HSN Code: 3402.90

CAS Number: Not specified

Classification: Generally non-hazardous under GHS

Parameter	Specification	Test Method
Appearance	Brown to dark brown viscous liquid (paste) or powder/pastilles	Visual
Active Matter (as sulfonate)	60 – 95% (grade dependent)	Titrimetric / Gravimetric
pH (10% aqueous solution, 25 °C)	8.0 – 11.0	pH meter
Total Solids	60 – 95% (as specified)	Gravimetric
Moisture Content	"d 5.0 %	Oven drying
Colour (APHA / Pt-Co)	"d 300	Photometric
Oil Emulsification (1% solution)	Good — forms stable emulsion	Emulsification test
Spreading / Wetting	Good	Surface tension / practical test
Sulphated Ash / Inorganics	"d 1.0 %	Gravimetric
Chloride (as Cl{)	"d 0.1 %	Ion Chromatography / Titration
Sulphate (as SO„²{)	"d 0.5 %	Ion Chromatography
Residual Benzene / Aromatics	Meets regulatory limits	GC
Heavy Metals (as Pb)	"d 0.002 %	AAS / ICP-OES
Viscosity (paste / liquid, 25 °C)	100 – 5,000 mPa·s	Brookfield viscometer
Density (20 °C)	1.02 – 1.15 g·cm{³	Pycnometer / Density meter
Foam (1% solution)	Low to moderate	Ross-Miles / Foam test
Odour	Characteristic oily / hydrocarbon note (mild)	Sensory

Physical Properties

Appearance: Brown to dark brown viscous liquid / paste or free-flowing powder; characteristic mild hydrocarbon odor; free of solids

Odor: Characteristic oily / hydrocarbon note (mild)

Molecular Formula: R-SO₂fNa (where R is petroleum hydrocarbon chain)

Molecular Weight: Varies

Solubility: Soluble in water (forms clear to slightly opalescent solution) and dispersible in alcohols; readily emulsifies mineral oils

Density: 1.02 – 1.15 g/cm³

Packing: 200 L HDPE / lined steel drums; 1,000 L IBCs for bulk; 25 kg / 50 kg polyethylene-lined bags or 25 kg fiber drums

Storage: Store in cool, dry, well-ventilated area away from direct sunlight and heat. Keep containers tightly closed

Safety & Handling

PPE: Suitable gloves, goggles, and protective clothing

Hazards:

- Mildly irritating to eyes and skin
- Avoid inhalation of powder/dust