

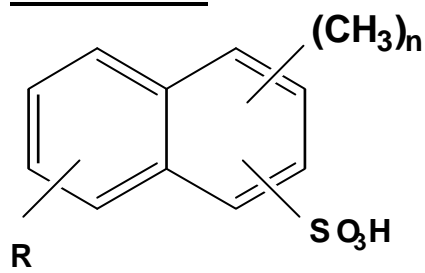


Petro® Products

Description of products & application areas



Introduction:



The Petro series of alkyl naphthalene sulfonates has a wide range of molecular weights. These products also have multiple properties. Each Petro surfactant is specifically designed to function in applications with unusual requirements. Petro products are supplied as either 95% powder, or 50% solution in water.

All Petro products exhibit excellent properties of wetting, hard surface detergency, dispersion in lime soap, hard water tolerance, hydrotropic coupling, high and low temperature stability, instant water solubility to very high levels and compatibility in solutions of acid, caustic as well as other electrolytes.

Petro Molecular Weight:

The Petro Series have molecular weights between 200, to 348. The lower molecular weight products are low foaming, and have excellent anti-caking properties. As molecular weight increases, the Petro surfactants increase in wetting, foaming and detergency, as well as exhibiting lower surface tension.

Sodium Xylene Sulfonate MW – 208	Petro Series					Linear Alkyl Benzene Sulfonate MW - 348
	22	11	BA	BAF	P	

Petro Series:

Product Name :

Trade Name	Description	Form	Active%
AA	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+
BA	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+
P	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+
LBA	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+

The above products offer moderate to high foam. Petro BA offers dispersion, anti-caking and hydrotropic properties, with instant solubility in cold water with high hardness levels or electrolyte levels. Petro P offers the best in foaming, foam stability, wetting detergency dispersion, and emulsification.

Product Name :

Trade Name	Description	Form	Active%
BAF	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+
LBAF	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+

Petro BAF, and Petro LBAF are designed for use in applications that require high foaming properties, good detergency and hard water tolerance. Petro BAF is well suited for rug and upholstery shampoos based on sodium lauryl sulfate. In this application Petro BAF will improve freeze thaw stability on the formula, and give a friable residue that is easily removed from the soft surface.

Product Name :

Trade Name	Description	Form	Active%
22	Sodium Alkyl Naphthalene Sulfonate	Liq/Pwd	50/95+
ULF	Sodium Alkyl Naphthalene Sulfonate	Liq	50
LULF	Sodium Alkyl Naphthalene Sulfonate	Liq	50
D-425	Naphthalene-Formaldehyde Condensate	Liq/Pwd	45/88+

Petro 22, Petro ULF and Petro LULF, are low foaming products with excellent hydrotropic and wetting properties. These products are designed for steam cleaning and soak formulations. They may be used in acid and alkaline systems, for de-scaling, automatic dish wash and other applications that require high temperature and vigorous agitation. These products also act as anticaking agents, and tolerate hard water as high as 5,000 ppm CaCO₃.



Petro D-425 is a high molecular weight version of the Petro line. This material is a dispersant for suspension concentrates and dry formulations. This Petro product is well suited for dispersion of a wide variety of active ingredients over a wide range of water hardness and electrolyte concentrations. Choose Petro D-425 when excellent dispersion is required.

Typical Properties:

Properties	Product						
	Petro BA	Petro AA	Petro P	Petro LULF	Petro LBAF	Petro ULF	Petro 22
Ross Miles Foam Height @ 25°C 0.25%	113	106	147	45	185	43	60
Color Klett max. @ 5% Aqueous	600 max	600 max	2800			600	600
Gardner Color, max.				9	9		
Draves Wetting 1% Aq seconds	20 - 30	20 - 30	2 - 5	20 - 30	5 - 10	20 - 30	20 - 30
Surface tension 0.1% @ 25°C DeNouy, Dynes/cm	43	34	36	32	34	31	30

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Customer Service

For additional information, samples or assistance please contact your local sales representative or the Akzo Nobel Customer Service Department at:

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