

Innovators in Surfactant Technology

Lankem 



Product Guide

Expertise in Surfactant Technology



Founded in 1999, Lankem is a business that supplies surfactant products to industrial markets such as coatings, emulsion polymerisation, agrochemicals, textiles, oils and lubricants, and industrial cleaning. In recent years, the company has focused on developing novel bio-based surfactants and has introduced the BioLoop surfactants. The primary business focus is on surfactant technology, providing expertise and advice to formulators. With an on-site laboratory facility and production lines, Lankem offers both conventional and unique surfactant products.

Expertise in surfactant technology

We are committed to offering expert guidance and support to assist formulators in developing innovative products and technologies. Our dedicated laboratory facility focuses on the analysis and matching of products, while our technical team provides comprehensive assistance to address customer inquiries. Technical support is integral to our business growth, and as a company, we continuously develop new products to meet evolving customer needs.

Our chemistries

Surfactants consist of both hydrophobic and hydrophilic segments, enabling a range of distinctive properties to be achieved through their molecular composition. Our product portfolio includes surfactants that generate varying levels of foam, from high to low. Certain products exhibit superior detergency, making them ideal for cleaning formulations. We also offer surfactants with effective emulsification capabilities for oils and

monomers, suitable for emulsion polymerisation processes. Additionally, some of our surfactants demonstrate excellent wetting power, while others provide combined wetting and dispersing properties. Our offerings encompass all categories of surfactants: anionic, nonionic, cationic, and amphoteric.

Bespoke products

We provide a service that allows customers to receive products with custom-specific markings. These products can be either re-branded items or formulations tailored to the customer's specifications. The packaging options available include 25kg, 200kg, 1000kg IBC, and bulk tankers

Global player

A comprehensive network of agents and sales offices provides support across all global regions. The main headquarters is situated in the United Kingdom, complemented by a sales office in Dublin, Ireland, to cater to European operations, and another sales office in the United States dedicated to supporting business activities in North America.

Quality and the environment

We regard both quality and environmental compliance as vital components of our business operations. As anticipated, we are a quality-assured company, compliant with ISO9001 standards, and maintain an exemplary environmental profile certified to ISO14001. As participants in the Responsible Care Program, we are dedicated to conducting our business ethically and responsibly. Furthermore, our Occupational Health and Safety Management System is accredited to the ISO45001 standard.

Bio-based Surfactants

Green technologies are increasingly important for sustainability. Lankem has developed a new range of surfactants called BioLoops.

These products have a renewable carbon index of over 99% and are very mild.

In addition to our bio-based products, we offer Alkyl Polyglucosides.

Key Features of the BioLoops

- Based on BioLoop technology
- Renewable carbon index > 99%
- Ultra-mild
- No skin or eye irritancy
- Low ecotoxicity
- Biodegradable
- A green alternative to conventional dispersing agents
- Hazard label free

BioLoop Surfactants - Conventional Industrial Applications

Product Name	Description	Appearance	Activity %	HLB	Cloud Point
BioLoop 56L	Soybean BioLoop - Small Chain	Liquid	100	10.8	56
BioLoop 68L	Soybean BioLoop - Medium Chain	Liquid	80	13.2	68
BioLoop 84L	Soybean BioLoop - Long Chain	Liquid	75	14.9	84
BioLoop RPS56L	Rapeseed BioLoop - Small Chain	Liquid	100	10.5	44
BioLoop RPS68L	Rapeseed BioLoop - Medium Chain	Liquid	80	13.0	57
BioLoop RPS84L	Rapeseed BioLoop - Long Chain	Liquid	75	14.7	77
BioLoop SUN56	Sunflower BioLoop - Small Chain	Liquid	100	9.6	42
BioLoop SUN68	Sunflower BioLoop - Medium Chain	Liquid	80	10.9	62
BioLoop SUN84	Sunflower BioLoop - Long Chain	Liquid	75	13.9	82

BioLoop Surfactants - Soybean Pure Grade for Personal Care and Cosmetics

Product Name	Description	Appearance	Activity %	HLB	Cloud Point
BioLoop 56L-PG	Soybean BioLoop - Small Chain	Liquid	100	10.8	56
BioLoop 68L-PG	Soybean BioLoop - Medium Chain	Liquid	80	13.2	68
BioLoop 84L-PG	Soybean BioLoop - Long Chain	Liquid	75	14.9	84

Alkyl Polyglucosides

Product Name	Description	Appearance	Activity %	Viscosity
Lansurf APG8	C8 - 16 alkyl polyglucosides	Liquid	64	1000
Lansurf APG12	C10 - 16 alkyl polyglucosides	Liquid	51	3000 #

Anionic Surfactants

Anionic surfactants, which are negatively charged, come in various chemical types such as alkyl ether sulphates, alkyl sulphates, alkylbenzene sulfonates, alpha olefin sulfonates, and phosphate esters. They are used in many applications for their properties like emulsification, solubilisation, wetting, detergency, dispersion, and foaming.



Alkyl Benzene Sulphonic Acid and Salts

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf SBE acid	Dodecyl benzene sulphonic acid	Liquid	100	1970	Class 8
Kemsurf SBE25	Sodium dodecyl benzene sulphonate	Liquid	25	150	-
Kemsurf SBE30	Sodium dodecyl benzene sulphonate	Liquid	30	6900	-
Kemsurf SX85	Sodium dodecyl benzene sulphonate	Solid	85	-	-
Kemsurf CA	Calcium dodecyl benzene sulphonate	Liquid	70	3025	Class 3
Kemsurf CA-EH	Calcium dodecyl benzene sulphonate - 2EH	Liquid	60	1900	-
Kemsurf PWS	Isopropylamine dodecyl benzene sulphonate	Liquid	92	4200	-

Alpha Olefin Sulphonates

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf OS38	Sodium C14 - 16 olefin sulphonate	Liquid	38	200	-

Alkyl Sulphates

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf DSA	Sodium lauryl sulphate	Liquid	28	100	-

Alkyl Ether Sulphates

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf ASC	Sodium laureth - 2 sulphate	Liquid	27	600	-
Kemsurf ESD	Sodium laureth - 3 sulphate	Liquid	27	26	-
Kemsurf ESD60	Sodium laureth - 3 sulphate	Liquid	60	210	Class 3
Kemsurf EM9	Sodium laureth - 12 sulphate	Liquid	30	2000	-
Kemsurf EM30	Lauryl + 30EO sulphate - sodium salt	Liquid	30	90	-
Lanspec OF32	Alky ether sulphate sodium salt	Liquid	32	50	-
Lanspec OF56	Alky ether sulphate ammonium salt	Liquid	56	105	-
Lanspec OF65	Alky ether sulphate ammonium salt	Liquid	56	90	-

Fatty Acid and Fatty Acid Sulphonate

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf OPA	Fatty acid sulphonate - potassium salt	Liquid	50	312	-

Diocetyl Sulphosuccinate

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Kemsurf OT60	Sodium dioctyl sulphosuccinate - IMS / water	Liquid	60	43	Class 3
Kemsurf OT70-G	Sodium dioctyl sulphosuccinate - glycol	Liquid	70	1480	-

Phosphate Esters - TPA

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Lanphos TE43	Alcohol ethoxy phosphate - acid form	Liquid	100	2400	-
Lanphos TEP4	Phenol + 4EO phosphate - acid form	Liquid	100	4200 #	-
Lanphos TEP4K	Phenol + 4EO phosphate - potassium salt	Liquid	65	180	-

Phosphate Esters - P2O5

Product Name	Description	Appearance	Activity %	Viscosity	Hazard
Lanphos PET11	Poly aryl ether phosphate - acid form	Liquid	100	4300	-
Lanphos PET22	Poly aryl ether phosphate - triethanolamine salt	Liquid	100	4500	-
Lanphos PE244	C12-14 + 4EO phosphate ester - free acid	Liquid	100	1145	-
Lanphos PE35	Tridecanol + 5EO phosphate ester - acid form	Liquid	100	1420	-
Lanphos PE36	C13 ethoxy phosphate ester - free acid	Liquid	100	1507	-
Lanphos PE310	Tridecanol + 10EO phosphate ester - acid form	Liquid	100	888	-
Lanphos PE74	Cetyl oleyl ethoxy phosphate	Liquid	100	2500	-
Lanphos PS6-25A	C13 + 6EO phosphate ester ammonia salt	Liquid	25	555	-
Lanphos PS10	C13 + 10EO phosphate ester potassium salt	Liquid	25	1010	-

Nonionic Surfactants



Nonionic surfactants, which carry no electrical charge, come in various types: alcohol ethoxylates, alcohol ethoxylates/propoxylates, ethylene oxide-propylene oxide copolymers, castor oil ethoxylates, amine ethoxylates, fatty acid esters, and their ethoxylates. They are used for emulsification, solubilisation, wetting, dispersion, detergency, foaming, and defoaming in many applications.

C10 Alcohol Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf AE103	C10 alcohol + 3EO	Liquid	100	40	8	41 b10
Lansurf AE105	C10 alcohol + 5EO	Liquid	100	100	10	56 b10
Lansurf AE107	C10 alcohol + 7EO	Liquid	95	290	12	70 b10
Lansurf AE108W	C10 alcohol + 8EO	Liquid	80	55	14.5	56 w
Lansurf AE109W	C10 alcohol + 9EO	Liquid	80	100	14	69 w

C12 - C14 Alcohol Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf AE244	C12 - 14 alcohol + 4EO	Liquid	100	30	9.5	74 b16
Lansurf AE247	C12 - 14 alcohol + 7EO	Liquid/Paste	100	27 #	12.3	55 w
Lansurf AE247-W	C12 - 14 alcohol + 7EO	Liquid	90	115	12.3	55w

C13 Alcohol Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf AE33	C13 alcohol + 3EO	Liquid	100	50	9	36 b10
Lansurf AE35	C13 alcohol + 5EO	Liquid	100	80	10.5	60 b16
Lansurf AE37	C13 alcohol + 7EO	Liquid	100	100	12	70 b16
Lansurf AE310W	C13 alcohol + 10EO	Liquid	80	125	13.5	70 w
Lansurf AE312W	C13 alcohol + 12EO	Liquid	80	130	14.5	60 s
Lansurf AE315W	C13 alcohol + 15EO	Liquid	80	130	15.5	64 s
Lansurf AE320W	C13 alcohol + 20EO	Liquid	80	150	16.5	73 s

Cetyl Oleyl Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf AE73	Cetyl oleyl + 3EO	Liquid	100	57	6.8	56 b10
Lansurf AE735	Cetyl oleyl + 35EO	Solid	100	-	17	78 s

Alcohol EO/PO

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf AEP63	Synthetic alcohol EO / PO	Liquid	95	64	-	41 w
Lansurf AEP66	Synthetic alcohol EO / PO	Liquid	95	114	-	33 w

EO / PO Block Polymers

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf DPE201	Diol EO / PO block polymer - 2000 mwt	Liquid	100	390	-	34 b16
Lansurf DPE253	Diol EO / PO block polymer - 2500 mwt	Liquid	100	650	-	59 b16
Lansurf DPE808	Diol EO / PO block polymer - 8000 mwt	Solid	100	-	-	88 s

Sorbitan Esters

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf SMO	Sorbitan mono-oleate	Liquid	100	1100	4.3	NA
Lansurf STO	Sorbitan tri-oleate	Liquid	100	230	1.8	NA
Lansurf SMS	Sorbitan mono-stearate	Solid	100	-	4.7	NA
Lansurf SML	Sorbitan mono-laurate	Liquid	100	5250	8	NA

Sorbitan Ester Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf SMO81	Sorbitan mono-oleate + 5EO	Liquid	100	465	10	◇
Lansurf SMO80	Sorbitan mono-oleate + 20EO	Liquid	100	720	15	67 s
Lansurf STO85	Sorbitan tri-oleate + 20EO	Liquid	100	270	11	◇
Lansurf SMS60	Sorbitan mono-stearate + 20EO	Liquid / Paste	100	190 #	15	53 s
Lansurf SML20	Sorbitan mono-laurate + 20EO	Liquid	100	350	16.5	70 s

Tallow Amine Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf TA15	Tallow amine + 15EO	Liquid	100	252	14.2	53 b10
Lansurf TH30W	Tallow amine + 30EO	Liquid	80	1170	16.6	88 s

Castor Oil Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity *	HLB	Cloud Point
Lansurf CO12	Castor oil + 12EO	Liquid	100	500	7	52 b10
Lansurf CO40	Castor oil + 40EO	Liquid/Paste	100	357 #	13.5	70 b16

Oleic Acid Ethoxylates

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf OA7	Oleic acid + 7EO	Liquid	100	84	10.4	63 b10
Lansurf OA10	Oleic acid + 10EO	Liquid	100	120	11.8	67 b10
Lansurf OA14	Oleic acid + 14EO	Liquid	100	340	13.6	42 w

Phenol Ethoxylate

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf P4	Phenol + 4EO	Liquid	100	64	-	67 *

Fatty Acid Alkonamides

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf CDE	Coconut diethanolamide	Liquid	100	1408	-	NA
Lansurf CDE-G	Coconut diethanolamide - glycerol	Liquid	100	1303	-	NA

Amine Oxides

Product Name	Description	Appearance	Activity %	Viscosity	HLB	Cloud Point
Lansurf CAO	Lauryl amine oxide	Liquid	30	100	-	NA
Lansurf CAPO	Cocoamidopropyl amine oxide	Liquid	30	120	-	NA

Appearance assessed at 25°C

Viscosity measured in centipoise using spindle 3 speed 100rpm at 20°C, # temperature at 40°C

Cloud point test: w: 1g in 100g water

S: 1g in Sodium Chloride Solution (10%)

b10: 10% in BDG Solution (25%)

b16: 16.6% in BDG Solution (25%) / 5g in 25g (25% BDG Solution)

*: 10% aqueous

NA: none available

∅: material not soluble in water

Amphoteric & Cationic Surfactants



Amphoteric surfactants can carry a positive or negative charge depending on pH, whereas cationic surfactants carry a positive charge. There are a number of chemical types for amphoteric surfactants including betaines, amidopropyl betaines, alkylamino dipropionates. They are used in a wide range of applications where they provide useful characteristics such as foaming, solubilisation, antistatic.

Betaines

Product Name	Description	Appearance	Activity %	Viscosity
Amphokem CAB	Lauryl betaine	Liquid	30	40
Amphokem CAPB	Cocoamidopropyl betaine	Liquid	30	20

Dipropionates

Product Name	Description	Appearance	Activity %	Viscosity
Amphokem CADP	Sodium cocoiminodipropionates	Liquid	30	132

Imidazoline

Product Name	Description	Appearance	Activity %	Viscosity
Lanspec OC100	Tall oil fatty acid imidazoline	Liquid	100	200
Lanspec OC200	Tall oil fatty acid imidazoline	Liquid	100	600

Quaternary Ammonium Compound

Product Name	Description	Appearance	Activity %	Viscosity
Lanquat CAE	Quaternised fatty amine ethoxylate	Liquid	100	400

Surfactants for Agrochemicals



Surfactants are important components used in the preparation of agrochemicals formulations, they provide a broad range of essential properties including:

- Emulsification
- Dispersion
- Wetting
- Compatibilization
- Activity Enhancement

Emulsifiable Concentrates - Anionics

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Kemsurf PWS	Isopropylamine dodecyl benzene sulphonate	Liquid	92	4200	920:930
Kemsurf CA	Calcium dodecyl benzene sulphonate	Liquid	70	3025	910:930
Lanwet JH1	Substrate wetter	Liquid	70	1480	910:930

Emulsifiable Concentrates - Nonionics

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf NEC15T	Tristyrylphenol ethoxylate	Liquid	100	1520	920
Agrosurf NEC12	Castor oil + 12EO	Liquid	100	884	960
Agrosurf NEC32	Alcohol ethoxylate	Liquid	80	125	920:930:960
Agrosurf NEC38	Alcohol ethoxylate	Liquid	90	130	920:930:960
Agrosurf NEC40	Castor oil + 40EO	Liquid / Paste	100	357 #	960
Lansurf DPE253	Diol EO/PO block polymer - 2500 mwt	Liquid	100	650	960

Emulsifiable Concentrates - Balanced Pair

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf BPE148	Nonionic / anionic emulsifier	Liquid	68	3025	910
Agrosurf BPE211	Nonionic / anionic emulsifier	Liquid	93	1003	910
Agrosurf BPE148-EH	Nonionic / anionic emulsifier	Liquid	68	-	910
Agrosurf BPE211-EH	Nonionic / anionic emulsifier	Liquid	92	632	910

Stabilisers for Emulsifiable Concentrates

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf GF	Epoxidised soyabean oil	Liquid	100	350	910:930

Suspension Concentrates

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Lanphos PET22	Tristyrylphenol ether phosphate TEA salt	Liquid	80	1400	920
Lanphos PE35	Alkyl ether phosphate - acid form	Liquid	100	3200	910:920:930

Dispersing Agents

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Lansperse DIS145	Sodium naphthalene sulphonate	Powder	92	-	910:920
Lanphos PET22	Tristyrylphenol ether phosphate TEA salt	Liquid	80	1400	920
Agrosurf NEC15T	Tristyrylphenol + 15EO	Liquid	80	300	920

Wetting Agents

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf WP66	Alcohol EO/PO	Liquid	95	114	910:930:960
Agrosurf WP35	Alcohol ethoxylate	Liquid	84	100	910:930:960
Agrosurf WP85	Sodium dodecyl benzene sulphonate	Solid	85	-	910 : 930
Lanwet JH1	Substrate Wetter	Liquid	70	1480	910 : 930

Activity Optimisers - Adjuvants

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf AOP40	Formulated adjuvant	Liquid	100	-	-

Compatibility Agents

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf CMP125	Phosphate ester - acid form	Liquid	70	475	920
Agrosurf CMP147	Phosphate ester - potassium salt	Liquid	65	180	-

Microemulsions

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf ME30	Proprietary blend	Liquid	90	90	910
Agrosurf ME100	Proprietary blend	Liquid	100	960	920

Co-solvent

Product Name	Description	Appearance	Activity %	Viscosity	EPA Status
Agrosurf COS4	Phenol + 4EO	Liquid	100	64	-

Viscosity measured in centipoise at 20°C
Appearance at 25°C

EPA Status: exempt from tolerance under EPA regulation 40 CFR 180 - sections indicated # temperature at 40°C

Coatings Additives

Bio-based Dispersing Agents



A range of bio-based surfactants has been developed using patented BioLoop technology, where the molecule contains two hydrophobes derived from either soya, sunflower or rapeseed which are connected by a hydrophilic loop derived from molasses. The two hydrophobes aim to provide optimal bonding and spacing on the particle surface for enhanced stability and dispersing properties.

Soybean Variants



Rapeseed Variants

Sunflower Variants



Bio-based Dispersing Agents for Aqueous - Soybean Variants

Product Name	Application Summary	Appearance	Activity %
Lansperse BIO691	Soybean Variantt - stable in both aqueous and solvent systems	Liquid	100
Lansperse BIO801	Soybean Variantt	Liquid	80
Lansperse BIO868	Soybean Variantt	Liquid	75
Lansperse RPS11	Rapeseed Variant	Liquid	100
Lansperse RPS25	Rapeseed Variant	Liquid	80
Lansperse RPS43	Rapeseed Variant	Liquid	75
Lansperse SUN10	Sunflower Variant	Liquid	100
Lansperse SUN20	Sunflower Variant	Liquid	80
Lansperse SUN30	Sunflower Variant	Liquid	75

Dispersing Agents for Aqueous Systems - Conventional Types

Product Name	Application Summary	Appearance	Activity %
Lansperse LT87	Organic and inorganic pigment dispersions, paints and inks - neutral SDS	Liquid	80
Lansperse DS200W	Organic and inorganic pigment dispersions, paints and inks - nonionic	Liquid	80
Lansperse DS80	Co-dispersant with Lansperse DS200W - anionic	Liquid	80
Lansperse SPA	Mainly inorganic pigment dispersions and titanium dioxide	Liquid	40

Dispersing Agents for Solvent Systems

Product Name	Application Summary	Appearance	Activity %
Lansperse SL18-60	Hyperdispersant for whites (TiO ₂), blacks and organic reds, yellows, blues	Liquid	60
Lansperse SL58	A wide range of pigments such as red 57.1, PR 101 and blacks	Liquid	100
Lansperse SL66	A wide range of pigments such as yellow 42, blue 15.3 and PY 74	Liquid	100

Dispersing Agents for UV Curable Systems

Product Name	Application Summary	Appearance	Activity %
Lansperse UV74	Good quality dispersions in UV monomer, giving excellent gloss when cured	Liquid	100
Lansperse UV93	Applicability across a broad range of pigments giving good colour strength	Liquid	100

Dispersing Agent for Universal Systems

Product Name	Application Summary	Appearance	Activity %
Lansperse BIO691	A bio-based dispersing agent soluble in aqueous and solvent systems	Liquid	100

Compatibility Agent for Dispersions

Product Name	Application Summary	Appearance	Activity %
Lansperse UT57	Helps to improve the colour strength and reduces flocculation problems of existing pigment dispersion and paint formulations	Liquid	100

Substrate Wetter

Product Name	Application Summary	Appearance	Activity %
Lanwet JH1	An extremely powerful wetting agent for aqueous systems	Liquid	70
Lansperse BIO691	A bio-based substrate wetter - see guide	Liquid	100

Defoamer

Product Name	Application Summary	Appearance	Activity %
Dfoam AX1	A mineral oil based defoamer	Liquid	100
Dfoam AR2	A mineral oil defoamer with additional hydrophobic particles	Liquid	100

Humectant

Product Name	Application Summary	Appearance	Activity %
Kemectant EB3	Prevents in-can drying increases the open time and improves the freeze-thaw stability	Liquid	80

Emulsion Polymerisation

Anionics	Vinyl Acetate	Vinyl Acetate Acrylic	Vinyl Acetate VeoVa	Vinyl Chloride	Vinyldiene plus Copolymers	Acrylamide
Kemsurf ESD		✓★	✓★			
Kemsurf ESD60		✓★	✓★			
Kemsurf SBE30		✓★		✓	✓	
Lanphos PS6-25A						
Lanphos PS10						
Kemsurf DSA				✓	✓	
Kemsurf OS38	✓					
Kemsurf OT60		✓★		✓		
Kemsurf EM9						
Kemsurf EM30	✓					
★ Requires a nonionic stabiliser						
Nonionics						
Lanspec EMP208		✓				
Lanspec EMP404			✓			
Lanspec HSR			✓			
Lansurf SMO						✓

Anionics	Styrene	Styrene Acrylic	Styrene Butadiene	Acrylic Monomers	Styrene Butadiene Acrylonitrile
Kemsurf ESD					
Kemsurf ESD60					
Kemsurf SBE30	✓	✓★	✓		✓
Lanphos PS6-25A		✓		✓	
Lanphos PS10		✓		✓	
Kemsurf DSA	✓				✓
Kemsurf OS38		✓			
Kemsurf OT60					
Kemsurf EM9	✓				
Kemsurf EM30	✓				
★ Requires a nonionic stabiliser					
Nonionics					
Lanspec EMP404 *		✓			
Lanspec HSR *		✓			





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