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Nonionic Surfactants

Alcohol Ethoxylates

Product	Chemical nature		Cloud point [°C]	HLB value	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Dehydol LT 7	$C_{12}C_{18}$-Fatty alcohol	+ 7 EO	approx. 53/A	approx. 12	approx. 40 (40 °C)	Liquid	✓	✓
Lutensol AT 11 HiGrade	$C_{16}C_{18}$-Fatty alcohol	+ 11 EO	approx. 87/A	approx. 13	approx. 30 (60 °C)	Solid	✓	✓
Lutensol AT 18 20%*		+ 18 EO 20%	approx. 92/B	approx. 15	approx. 25	Liquid	✓	✓
Lutensol AT 25 E*		+ 25 EO	approx. 95/B	approx. 16	approx. 70 (60 °C)	Solid	✓	✓
Lutensol AT 25 Flakes*		+ 25 EO	approx. 95/B	approx. 16	approx. 70 (60 °C)	Flakes	✓	✓
Lutensol AT 50 Powder		+ 50 EO	approx. 92/B	approx. 18	approx. 150 (60 °C)	Powder	✓	✓
Lutensol AT 50 Flakes		+ 50 EO	approx. 92/B	approx. 18	approx. 150 (60 °C)	Flakes	✓	✓
Lutensol AT 80 Powder		+ 80 EO	approx. 87/B	approx. 18.5	approx. 400 (60 °C)	Powder	✓	✓
Lutensol AO 3	$C_{13}C_{15}$-Oxo alcohol	+ 3 EO	approx. 45/E	approx. 8	approx. 40	Liquid		✓
Lutensol AO 5*		+ 5 EO	approx. 62/E	approx. 10	approx. 80	Liquid		✓
Lutensol AO 7		+ 7 EO	approx. 43/A	approx. 12	approx. 100	Liquid		✓
Lutensol AO 11*		+ 11 EO	approx. 86/A	approx. 14	approx. 30 (60 °C)	Paste		✓
Lutensol TO 2	C_{13}-Oxo alcohol	+ 2 EO	approx. 37/D	approx. 7	approx. 30	Liquid		✓
Lutensol TO 3		+ 3 EO	approx. 40/E	approx. 8	approx. 50	Liquid		✓
Lutensol TO 5*		+ 5 EO	approx. 62/E	approx. 10.5	approx. 80	Liquid		✓
Lutensol TO 6*		+ 6 EO	approx. 67/E	approx. 11	approx. 80	Liquid		✓
Lutensol TO 7*		+ 7 EO	approx. 70/E	approx. 12	approx. 100	Liquid		✓
Lutensol TO 8*		+ 8 EO	approx. 60/A	approx. 13	approx. 150	Liquid		✓
Lutensol TO 89*		+ 8 EO 90%	approx. 60/A	approx. 13	approx. 120	Liquid		✓
Lutensol TO 10*		+ 10 EO	approx. 70/A	approx. 13.5	approx. 30 (60 °C)	Paste		✓
Lutensol TO 108 HiGrade		+ 10 EO 80%	approx. 70/A	approx. 13.5	approx. 180	Liquid		✓
Lutensol TO 109		+ 10 EO 85%	approx. 70/A	approx. 13.5	approx. 150	Liquid		✓
Lutensol TO 12		+ 12 EO	approx. 75/B	approx. 14.5	approx. 40 (60 °C)	Solid		✓
Lutensol TO 129		+ 12 EO 85%	approx. 75/B	approx. 14.5	approx. 200	Liquid		✓
Lutensol TO 20		+ 20 EO	approx. 86/B	approx. 16.5	approx. 60 (60 °C)	Solid		✓

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* Also available as HiGrade

Alcohol Ethoxylates

Product	Chemical nature		Cloud point [°C]	HLB value	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Lutensol XP 30	C_{10}-Guerbet alcohol	+ 3 EO	approx. 31/E	approx. 9	approx. 25	Liquid		
Lutensol XP 40		+ 4 EO	approx. 44/E	approx. 10.5	approx. 90	Liquid		
Lutensol XP 50		+ 5 EO	approx. 56/E	approx. 11.5	approx. 90	Liquid		
Lutensol XP 60*		+ 6 EO	approx. 62/E	approx. 12.5	approx. 140	Liquid		
Lutensol XP 69		+ 6 EO	85% approx. 62/E	approx. 12.5	approx. 70	Liquid		
Lutensol XP 70		+ 7 EO	approx. 68/E	approx. 13	approx. 290	Liquid		
Lutensol XP 79		+ 7 EO	85% approx. 68/E	approx. 13	approx. 90	Liquid		
Lutensol XP 80*		+ 8 EO	approx. 56/A	approx. 14	approx. 300	Liquid		
Lutensol XP 89*		+ 8 EO	85% approx. 56/A	approx. 14	approx. 90	Liquid		
Lutensol XP 90		+ 9 EO	approx. 69/A	approx. 14.5	approx. 1 200	Liquid		
Lutensol XP 99		+ 9 EO	85% approx. 69/A	approx. 14.5	approx. 100	Liquid		
Lutensol XP 100		+ 10 EO	approx. 80/A	approx. 15	approx. 30 (60 °C)	Paste		
Lutensol XL 40	C_{10}-Guerbet alcohol alkoxylate	+ 4 EO	approx. 46/E	approx. 10.5	approx. 40	Liquid		
Lutensol XL 50		+ 5 EO	approx. 60/E	approx. 11.5	approx. 50	Liquid		
Lutensol XL 70		+ 7 EO	approx. 68/E	approx. 13	approx. 70	Liquid		
Lutensol XL 80		+ 8 EO	approx. 56/A	approx. 14	approx. 120	Liquid		
Lutensol XL 140		+ 14 EO	approx. 78/B	approx. 16	approx. 40 (60 °C)	Paste		
Lutensol ON 30	C_{10}-Oxo alcohol	+ 3 EO	approx. 53/E	approx. 9	approx. 30	Liquid		
Lutensol ON 50		+ 5 EO	approx. 67/E	approx. 11.5	approx. 40	Liquid		
Lutensol ON 60		+ 6 EO	approx. 36/A	approx. 12	approx. 180	Liquid		
Lutensol ON 70*		+ 7 EO	approx. 60/A	approx. 13	approx. 60	Liquid		
Lutensol ON 80		+ 8 EO	approx. 80/A	approx. 14	approx. 100	Liquid		
Lutensol ON 110		+ 11 EO	approx. 78/B	approx. 15	approx. 30 (60 °C)	Paste		
Lutensol M 5	$C_{10}C_{18}$-Alcohol	+ 5 EO	approx. 61/E	approx. 11.4	<20 (60 °C)	Liquid		
Lutensol M 7		+ 7 EO	approx. 75/E	approx. 12.9	approx. 50 (60 °C)	Paste		
Lutensol CS 6250	C_6-Alcohol	+ 5 EO	approx. 67/B		approx. 20	Liquid		

Alkyl Polyglucosides

Product	Chemical nature	Concentration [%]	Density [g/cm³]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Agnique PG 8105-G	C_8C_{10}-Alkyl polyglucoside	approx. 63	approx. 1.135 (40 °C)	approx. 3 000	Liquid		
Agnique PG 8107-G		approx. 70	approx. 1.161	approx. 3 500	Liquid		
Disponil APG 215		approx. 63	approx. 1.13 (40 °C)	approx. 3 000	Liquid		
Agnique PG 8107-BL	C_8C_{10}-Alkyl polyglucoside with antifoam	approx. 70	approx. 1.161	approx. 3 500	Liquid		
Disponil APG 425	C_8C_{16}-Alkyl polyglucoside	approx. 50	approx. 1.11	approx. 500	Liquid		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* Also available as HiGrade

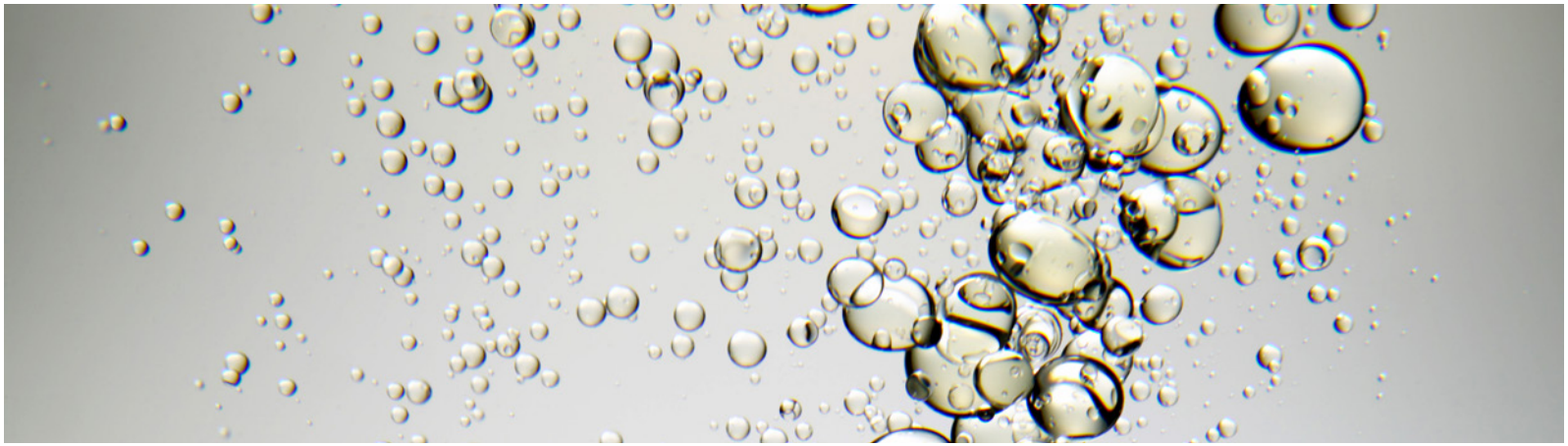
Aminopolyols

Product	Chemical nature		Cloud point [°C]	Amine number [mg KOH/g]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Quadrol L	Ethylene diamine	+ 4 PO	–	approx. 380	approx. 75 000	Liquid		

Emulsifiers and Solubilizers

Product	Chemical nature		Cloud point [°C]	HLB value	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Agnique CSO-20	Castor oil	+ 20 EO	approx. 66/D	–	approx. 110 (60 °C)	Liquid		
Agnique CSO-25		+ 25 EO	approx. 72/E	–	approx. 110 (60 °C)	Liquid		
Agnique CSO-30		+ 30 EO	approx. 75/E	–	approx. 150 (60 °C)	Liquid		
Agnique CSO-35		+ 35 EO	approx. 72/E	–	approx. 120 (60 °C)	Liquid		
Agnique CSO-40		+ 40 EO	approx. 74/E	–	approx. 120 (60 °C)	Liquid		
Agnique SBO 10	Modified vegetable oil		–	–	approx. 75 (40 °C)	Liquid		
Agnique SPO 40	Sorbitanester ethoxylated		–	–	approx. 400	Liquid		
Disponil LS 500	$C_{12}C_{14}$-Fatty alcohol	+ 50 EO	approx. 76/C	approx. 18.5	–	Solid		
Emulan A	Oleic acid ethoxylate		approx. 52/E	approx. 9	approx. 70	Liquid		
Emulan AF HiGrade	Fatty alcohol ethoxylate		approx. 65/E	approx. 11	approx. 15 (60 °C)	Paste		
Emulan AT 9			approx. 68/A	approx. 13	approx. 20 (60 °C)	Solid		
Emulan P HiGrade			approx. 58/D	approx. 7	approx. 30	Liquid		
Emulan EL	Castor oil ethoxylate		approx. 71/B	approx. 14	approx. 600 (40 °C)	Liquid		
Emulan OC HiGrade	Fatty alcohol ethoxylate		approx. 90/B	approx. 17	approx. 60 (60 °C)	Paste		
Emulan OG HiGrade			approx. 92/B	approx. 17	approx. 80 (60 °C)	Powder		
Disponil NRG 301 HiGrade	Aqueous solution based on fatty alcohol	+ 30 EO	60% approx. 78/C	approx. 17.6	approx. 270 (40 °C)	Liquid		
Disponil NRG 401 HiGrade		+ 40 EO	60% approx. 77/C	approx. 18.1	approx. 375 (40 °C)	Liquid		
Emulan TO 2080 HiGrade	C_{13}-Oxo alcohol	+ 20 EO	80% approx. 93/B	approx. 16	approx. 400	Liquid		
Emulan TO 3070 HiGrade		+ 30 EO	70% approx. 92/B	approx. 17	approx. 1 500	Liquid		
Emulan TO 4070*		+ 40 EO	70% approx. 92/B	approx. 18	approx. 1 400	Liquid		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* Also available as HiGrade



Foam Suppressors

Product	Chemical nature	Concentration [%]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Degressal SD 20	Fatty alcohol alkoxylate	approx. 100	approx. 60	Liquid		✓
Degressal SD 21		approx. 100	approx. 250	Liquid	✓	
Degressal SD 40	Phosphoric ester	approx. 100	approx. 20	Liquid		✓
Etingal L	Polyether derivative of a fatty acid	approx. 100	approx. 300	Liquid	✓	✓

Low-foaming Nonionic Surfactants

Product	Chemical nature		Cloud point [°C]	Molar mass [g/mol]]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Plurafac LF 221	Fatty alcohol alkoxylate	95%	approx. 33/A	–	approx. 100	Liquid		✓
Plurafac LF 400			approx. 33/A	–	approx. 70	Liquid		✓
Plurafac LF 403			approx. 41/E	–	approx. 60	Liquid		✓
Plurafac LF 711			approx. 45/E	–	approx. 80	Liquid		✓
Plurafac LF 801			approx. 43/E	–	approx. 65	Liquid	✓	✓
Plurafac LF 900			approx. 39/E	–	approx. 85	Liquid		✓
Plurafac LF 1300			approx. 21/E	–	approx. 130	Liquid	✓	✓
Pluronic PE 3100	EO-PO-EO-block polymer	10% EO	approx. 41/E	approx. 1 000	approx. 175	Liquid		✓
Pluronic PE 4300		30% EO	approx. 42/A	approx. 1 750	approx. 400	Liquid		✓
Pluronic PE 6100*		10% EO	approx. 23/A	approx. 2 000	approx. 350	Liquid		✓
Pluronic PE 6200*		20% EO	approx. 33/A	approx. 2 450	approx. 500	Liquid		✓
Pluronic PE 6400*		40% EO	approx. 60/A	approx. 2 900	approx. 1 000	Liquid		✓
Pluronic PE 6800		80% EO	approx. 88/B	approx. 8 000	–	Powder		
Pluronic PE 8100*		10% EO	approx. 36/E	approx. 2 600	approx. 700	Liquid		✓
Pluronic PE 9400		40% EO	approx. 80/E	approx. 4 600	approx. 300 (60 °C)	Solid		
Pluronic PE 10100		10% EO	approx. 35/E	approx. 3 500	approx. 800	Liquid		
Pluronic PE 10400		40% EO	approx. 81/A	approx. 5 900	approx. 500 (60 °C)	Solid		
Pluronic PE 10500		50% EO	approx. 75/B	approx. 6 500	approx. 500 (60 °C)	Solid		
Pluronic PE 10500 Solution B		50% EO	18% approx. 75/B	approx. 6 500	approx. 10	Liquid		
Pluronic RPE 1720	PO-EO-PO-block polymer	20% EO	approx. 37/E	approx. 2 150	approx. 450	Liquid		✓
Pluronic RPE 1740		40% EO	approx. 51/E	approx. 2 650	approx. 600	Liquid		✓
Pluronic RPE 2520*		20% EO	approx. 31/E	approx. 3 100	approx. 600	Liquid		✓
Pluronic RPE 3110		10% EO	approx. 25/E	approx. 3 500	approx. 600	Liquid		✓

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* Not suitable for secondary direct food additives as codified in 21 CFR part 173.340

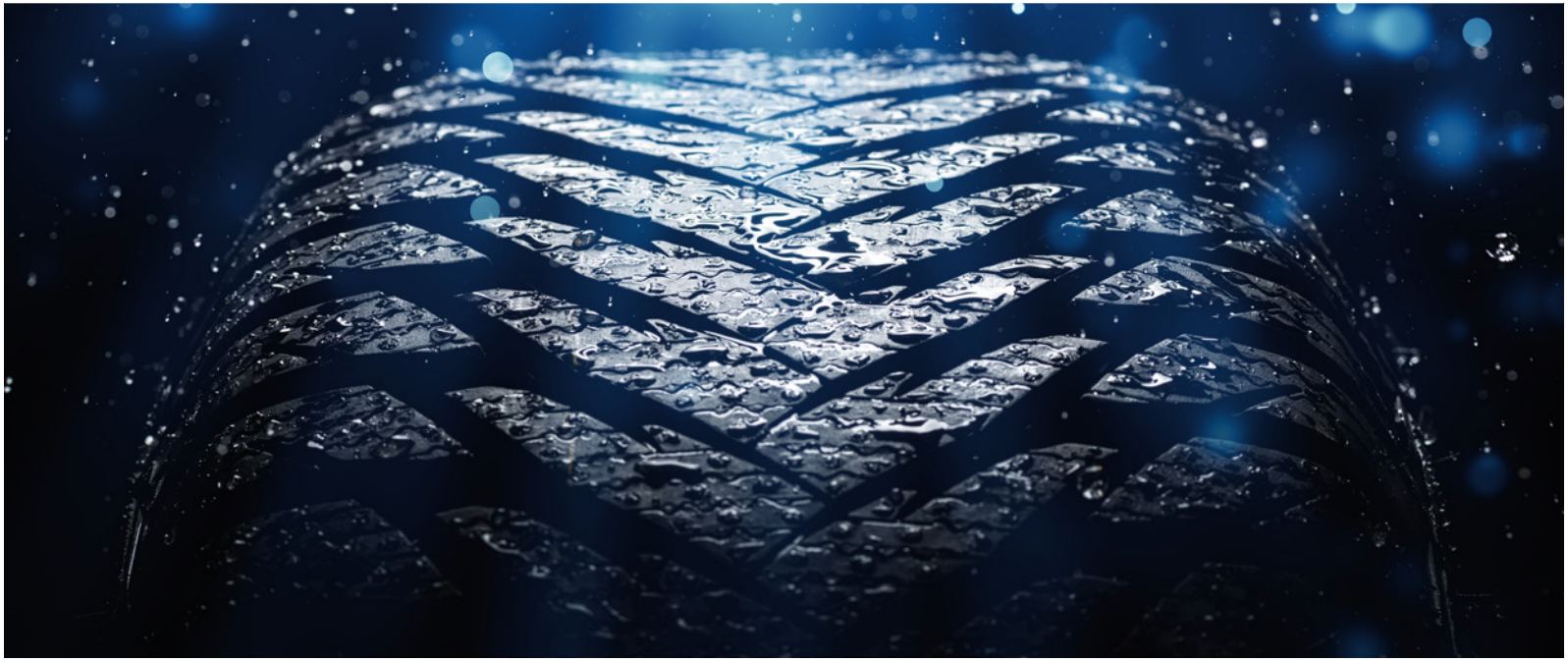
Special Surfactants

Product	Chemical nature		Concentration [%]	Cloud point [°C]	Physical form [23 °C]	Bio-based carbon[1]	Biodegrad-ability[2]
Disponil A 1080	Fatty alcohol ethoxylate, modified	+ 10 EO	approx. 80	approx. 65/C	Liquid		
Disponil A 1580		+ 15 EO	approx. 80	approx. 73/C	Liquid		
Disponil A 3065		+ 30 EO	approx. 65	approx. 77/C	Liquid		
Disponil A 4065		+ 40 EO	approx. 65	approx. 76/C	Liquid		
Disponil AFX 3070		+ 30 EO	approx. 70	approx. 80/C	Liquid		
Disponil PGE 110	Polyglycol ether of an aliphatic diol		approx. 100	approx. 84/B	Liquid		
Dehyton AB 30	Betaine		approx. 30	–	Liquid		
Dehyton K	Cocoamidopropyl betaine		approx. 30	–	Liquid		
Agnique GLP 45	Fatty acid amid derivate based betaine		approx. 45	–	Liquid		

Unsaturated Alcohol Ethoxylates

Product	Chemical nature		Concentration [%]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegrad-ability[2]
Agnique FOH 9 OC-3	Unsaturated fatty alcohol	+ 3 EO	approx. 100	approx. 50	Liquid		
Agnique FOH 9 OC-5		+ 5 EO	approx. 100	approx. 60	Liquid		
Disponil OC 5		+ 5 EO	approx. 100	approx. 135	Liquid/Paste		
Disponil OC 25		+ 25 EO	approx. 100	approx. 56 (70 °C)	Liquid		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable



Polyalkylene Glycols

Product	Chemical nature	Molar mass [g/mol]	Viscosity [mm²/s]	Melting point [°C]	Physical form [23 °C]	Bio-based Surfactant[1]	Biodegradability[2]
Pluriol A 10 R	Allyl alcohol ethoxylate	500	approx. 55	–	Liquid		✓
Pluriol A 750 R		750	approx. 80	–	Liquid		✓
Pluriol A 350 E	Methyl polyethylene glycol, desalted	350	approx. 30	–	Liquid		✓
Pluriol A 500 E		500	approx. 60	–	Liquid		✓
Pluriol A 520 E	Methyl polyethylene glycol	500	approx. 50	–	Liquid		✓
Pluriol A 750 E		750	approx. 30 (60 °C)	approx. 30	Solid		✓
Pluriol A 1020 E		1 000	approx. 40 (60 °C)	approx. 40	Solid		✓
Pluriol A 2010 E		2 000	approx. 120 (50 °C)	approx. 50	Solid		✓
Pluriol A 3010 E		3 000	aapprox. 200 (60 °C)	approx. 60	Solid		✓
Pluriol A 5010 E		5 000	approx. 400 (70 °C)	approx. 63	Solid		✓
Pluriol A 520 PE	Butyl polyalkyleneglycol copolymer	500	approx. 30	–	Liquid		✓
Pluriol A 6000 PE		6 000	approx. 2 000		Liquid		
Pluriol A 3 TE	Trimethylolpropane ethoxylate	280	approx. 600	–	Liquid		
Pluriol A 4 TE	Glycerol ethoxylate	225	approx. 400	–	Liquid		
Pluriol A 700 VP	Hydroxybutylvinyl ether propoxylate	700	approx. 60	–	Liquid		✓
Pluriol A 1190 I	Isoprenol ethoxylate	1 100	approx. 50 (60 °C)	approx. 40	Solid		✓
Pluriol A 7509 PH	Phenol ethoxylate	90% 750	approx. 190	–	Liquid		✓
Pluriol A 3090 V	Hydroxybutylvinylether ethoxylate	3 100	approx. 160 (70 °C)	approx. 60	Solid		✓
Pluriol A 5890 V		5 900	approx. 500 (80 °C)	approx. 60	Solid		✓
Pluriol E 200	Polyethylene glycol	200	approx. 60	–	Liquid		✓
Pluriol E 300		300	approx. 85	–	Liquid		✓
Pluriol E 400		400	approx. 110	–	Liquid		✓
Pluriol E 600		600	approx. 40 (50 °C)	approx. 20	Liquid/Solid		✓
Pluriol E 1000 LS		1 000	–	approx. 40	Solid		✓
Pluriol E 1500 E		1 500	approx. 60 (75 °C)	approx. 45	Solid		✓
Pluriol E 1500 Flakes		1 500	approx. 60 (75 °C)	approx. 45	Flakes		✓
Pluriol E 3400 Flakes		3 400	approx. 190 (75 °C)	approx. 55	Flakes		✓
Pluriol E 4000 Flakes		4 000	approx. 260 (75 °C)	approx. 55	Flakes		✓
Pluriol E 6000 Flakes		6 000	approx. 600 (75 °C)	approx. 60	Flakes		
Pluriol E 8000 Flakes		8 000	approx. 130* (50 °C)	approx. 63	Flakes		
Pluriol E 9000 Powder		9 000	approx. 260* (50 °C)	approx. 65	Powder		
Pluriol E 600 S	Polyalkylene glycol	600	approx. 40 (50 °C)	–	Liquid		✓
Pluriol P 600	Polypropylene glycol	600	approx. 130	–	Liquid		✓
Pluriol P 900 CA		900	approx. 140	–	Liquid		✓
Pluriol P 2000		2 000	approx. 440	–	Liquid		✓
Pluriol P 4000		4 000	approx. 1 050	–	Liquid		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* 50% aqueous solution

Anionic Surfactants

Fatty Alcohol Ethersulfates

Product	Chemical nature		Concentration [%]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Disponil BES 20	Isotridecyl ethersulfate	+ 20 EO, sodium salt	approx. 29	Liquid		
Agnique SLES-370	Fatty alcohol ethersulfate	+ 2 EO, sodium salt	approx. 70	Paste		
Disponil FES 27 EVO		+ 2 EO, sodium salt	approx. 27	Liquid		
Disponil FES 27 IS		+ 2 EO, sodium salt	approx. 27	Liquid		
Disponil FES 32 EVO		+ 4 EO, sodium salt	approx. 31	Liquid		
Disponil FES 147		+ 7 EO, sodium salt	approx. 27	Liquid		
Disponil FES 993		+ 12 EO, sodium salt	approx. 30	Liquid		
Disponil FES 77		+ 30 EO, sodium salt	approx. 33	Liquid		
Disponil FES 61		+ 50 EO, sodium salt	approx. 32	Liquid		

Fatty Alcohol Sulfates

Product	Chemical nature	Concentration [%]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Disponil SOS 842 EVO	C_8-Fatty alcohol sulfate, sodium salt	approx. 40	Liquid		
Disponil EHS 47	2-Ethylhexyl sulfate, sodium salt	approx. 47	Liquid		
Texapon 1030	C_{10}-Fatty alcohol sulfate, sodium salt	approx. 29	Liquid		
Disponil SDS 15 EVO	C_{12}-Fatty alcohol sulfate, sodium salt	approx. 15	Liquid		
Disponil SDS 30 EVO		approx. 30	Liquid		
Disponil SDS G		approx. 97	Solid		
Disponil ALS-IS	$C_{12}C_{14}$-Fatty alcohol sulfate, ammonium salt	approx. 28	Liquid		
Disponil ALS 33 EVO	C_8C_{14}-Fatty alcohol sulfate, ammonium salt	approx. 33	Liquid		
Texapon TH	C_8C_{14}-Fatty alcohol sulfate, triethanolamine salt	approx. 47	Liquid		
Disponil SLS 101 Spec EVO	$C_{12}C_{16}$-Fatty alcohol sulfate, sodium salt	approx. 30	Liquid		
Disponil SLS 101 IS		approx. 30	Liquid		
Disponil SLS 124 G		approx. 97	Solid		
Disponil OCS 27	$C_{16}C_{18}/C_{18:1}$-Fatty alcohol sulfate, sodium salt	approx. 27	Solid		

Linear Alkyl Benzene Sulfonates

Product	Chemical nature	Concentration [%]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Agnique ABS 70 C	Alkyl benzene sulfonate in isobutanol	approx. 70	Liquid		
Disponil LDBS 25 EVO	Linear dodecyl benzene sulfonate, sodium salt	approx. 25	Liquid		
Disponil LDBS 55		approx. 55	Paste		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable

Other Surfactants

Product	Chemical nature	Concentration [%]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Disponil SUS 87 Spez.	Mono-alkyl sulfosuccinate, sodium salt (5 EO)	approx. 30	approx. 30	Liquid		
Disponil SUS IC 10	Di-isodecyl sulfosuccinate, sodium salt	approx. 65	approx. 130	Liquid		
Disponil SUS IC 875	Di-isooctyl sulfosuccinate, sodium salt	approx. 75	approx. 350	Liquid		
Lutensit A-BO		approx. 60	approx. 150	Liquid		
Lutensit A-EP	Acidic phosphoric ester of a fatty alcohol alkoxylate	approx. 100	approx. 2180	Liquid		
Agnique OAS 50 K	Oleic acid sulfonate-di-potassium salt	approx. 52	approx. 250 (30 °C)	Liquid		

Fatty Alcohols

Product	Chemical nature	Concentration [%]	Viscosity [mPa·s]	Physical form [23 °C]	Bio-based carbon[1]	Biodegradability[2]
Agnique FOH 9 OC	Unsaturated fatty alcohol	approx. 100	< 20 (40 °C)	Liquid		
Emulan G 20	C_{20} Guerbet alcohol	approx. 100	approx. 60 (20 °C)	Liquid		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable

Product classification	Bio-based carbon [X% of total C]	Icon
Wholly bio-based	X ≥ 95	
Majority bio-based	95 > X > 50	
Minority bio-based	50 ≥ X > 5	
Non bio-based	X ≤ 5	

Biodegradability	Icon
Readily biodegradable	
Not readily biodegradable	

Test methods

- Cloud point in °C according to EN 1890:
  - Method A: 1 g surfactant + 100 g distilled water
  - Method B: 1 g surfactant + 100 g NaCl solution (c = 50 g/L)
  - Method C: 1 g surfactant + 100 g NaCl solution (c = 100 g/L)
  - Method D: 5 g surfactant + 45 g of diethylene glycol monobutyl ether solution (c = 250 g/L)
  - Method E: 5 g surfactant + 25 g of diethylene glycol monobutyl ether solution (c = 250 g/L)
- Viscosity: EN 12092 Brookfield, 60 rpm [mPa·s], 23 °C
- Viscosity: Ubbelohde according to DIN 51562 [mm^2/s]
- Molar mass calculated from hydroxyl number according to DIN 53240 or PSA method
- HLB value according to W.C. Griffin
- Melting point: BASF method

Dispersing Agents

Product	Chemical nature	Physical form	Concentration [%]	Molar mass [g/mol]	pH	Density [g/cm³]	Viscosity [mPa·s]
Sokalan CP 5	Maleic acid/acrylic acid copolymer, sodium salt	Liquid	40	50 000	8	1.30	2 000
Sokalan CP 9	Maleic acid/olefin copolymer, sodium salt	Liquid	25	5 000	11.5	1.12	50
Sokalan CP 9 Powder		Powder	> 89	5 000	11	–	–
Sokalan CP 10	Polyacrylic acid, modified, sodium salt	Liquid	45	3 500	8.5	1.30	500
Sokalan CP 10 S	Polyacrylic acid, modified	Liquid	50	3 500	2	1.16	150
Sokalan CP 12 S	Maleic acid/acrylic acid copolymer	Liquid	50	3 000	1.5	1.23	130
Sokalan CP 13 S	Polyacrylic acid, modified	Liquid	25	20 000	2	1.20	200
Sokalan PA 15	Polyacrylic acid, sodium salt	Liquid	45	1 200	7	1.31	230
Sokalan PA 25 CL PN*		Liquid	49	4 000	4	1.25	600
Sokalan PA 30 CL		Liquid	45	8 000	8	1.34	1 000
Sokalan NR 2530	Polyacrylic acid, modified, sodium salt, partially neutralized	Liquid	approx. 45	4 500	4.5	1.26	1 000
Sokalan NR 2555		Liquid	approx. 45	4 500	5	1.28	900
Sokalan NR 2595	Polyacrylic acid, modified, sodium salt	Liquid	approx. 45	4 500	8	1.3	700
Sokalan PA 25 XS	Polyacrylic acid	Liquid	approx. 49	5 000	2.5	1.2	500
Sokalan PA 80 S		Liquid	35	100 000	2	1.14	50
Sokalan PA 110 S		Liquid	35	250 000	2	1.14	5 000

* partially neutralized

Thickeners

Product	Chemical nature	Physical form	Concentration [%]	pH	Density [g/cm³]	Viscosity [mPa·s]
Rheovis AT 120	Methacrylic acid/acrylic acid ester copolymer, modified	Dispersion	30	3	1.05	30

Polyethylene Imines

Product	Chemical nature	Physical form	Concentration [%]	pH	Molar mass [g/mol]	Viscosity [mPa·s]
Lupasol FG	Polyethylene imine	Liquid	99	11	800	approx. 1 680
Lupasol G 20 Waterfree		Liquid	99	11	1 300	approx. 8 000
Lupasol G 20		Aqueous Solution	50	11	1 300	approx. 1 500
Lupasol PR 8515		Liquid	99	11	2 000	approx. 14 000
Lupasol G 100		Aqueous Solution	50	11	5 000	approx. 1 100
Lupasol WF		Liquid	99	11	25 000	> 200 000
Lupasol P		Aqueous Solution	50	11	750 000	approx. 25 000
Lupasol PN 40	Polyethylene imine, ethoxylated	Liquid	approx. 80	10	–	approx. 800

Polyvinylpyrrolidones & Copolymers

Product	Chemical nature	Physical form [23 °C]	Concentration [%]	Molar mass [g/mol]	Viscosity [mPa·s]
Sokalan K 17 P	Polyvinylpyrrolidone	Powder	approx. 98	9 000	
Sokalan K 30 P		Powder	approx. 98	50 000	
Sokalan K 30 sol. 30%		Liquid	approx. 30	50 000	approx. 120
Sokalan K 90 P		Powder	approx. 98	1 400 000	
Sokalan K 90 sol. 20%		Liquid	approx. 20	1 600 000	approx. 28 000
Sokalan K 115 AT 1		Liquid	approx. 11	2 200 000	approx. 3 000
Sokalan HP 165		Liquid	approx. 30	9 000	approx. 20
Sokalan VA 64 P	Vinylpyrrolidone/Vinylacetate copolymer	Powder	approx. 95	65 000	
Sokalan HP 56 Granules	Vinylpyrrolidone/Vinylimidazole copolymer	Granules	approx. 95	70 000	
Sokalan HP 56 A		Aqueous solution	approx. 30	70 000	approx. 300
Sokalan HP 66 A	Modified Polyvinylpyrrolidone	Aqueous solution	approx. 41	40 000	approx. 2 000

Sulfonic Acid Condensation Products/Sulfonates

Product	Chemical nature	Physical form [23 °C]	Solids content [%]	Bulk density [g/L]	Viscosity [mPa·s]
Tamol NN 2406	Naphthalene sulfonic acid condensation product, sodium salt	Liquid	31	–	approx. 20
Tamol NN 3501		Liquid	38	–	approx. 50
Tamol NN 8906		Powder	approx. 95	approx. 500	
Tamol NN 9104		Powder	95	approx. 500	
Tamol NN 9401		Powder	95	approx. 500	
Tamol NH 7519		Powder	approx. 95	approx. 500	
Tamol DN	Phenolsulfonic acid, condensation product, sodium salt	Powder	approx. 95	approx. 450	

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Talk to your BASF contact for more information to unleash the power of sustainability

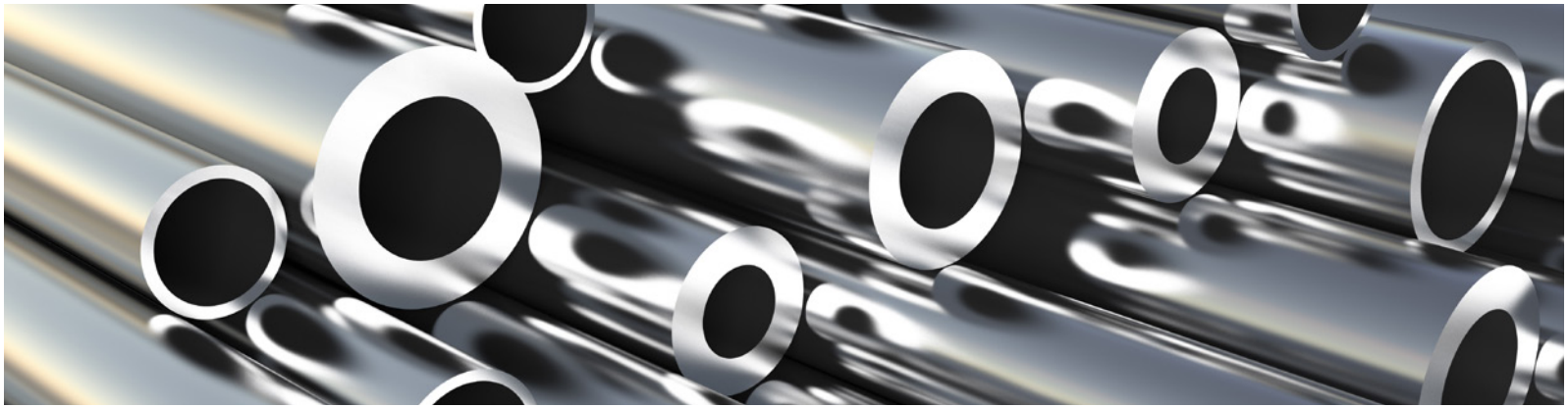
Chelating Agents

Product	Chemical nature	Physical form	Concentration [%]	pH [1% in Water]	Bulk density [g/L]	Density [g/cm³]	Bio-based carbon[1]	Biodegradability[2]
Trilon BS	Ethylenediaminetetraacetic acid (EDTA)	Powder	99	approx. 2.8	approx. 820	–		
Trilon BD	Disodium salt of EDTA, dihydrate	Powder	≥ 89	approx. 4.5	approx. 950	–		
Trilon B Liquid	Tetrasodium salt of EDTA	Liquid	40	approx. 11.5	–	approx. 1.31		
Trilon BX Liquid	Tetrasodium salt of EDTA, purer form	Liquid	40	approx. 11.5	–	approx. 1.28		
Trilon B Powder	Tetrasodium salt of EDTA, tetrahydrate	Powder	87	approx. 11.5	approx. 690	–		
Trilon BX Powder	Tetrasodium salt of EDTA, purer form	Powder	85	approx. 11.2	approx. 845	–		
Trilon D Liquid	Trisodium salt of Hydroxyethyl ethylenediaminetriacetic acid (HEDTA)	Liquid	40	approx. 11.5	–	approx. 1.26		
Trilon M Liquid	Trisodium salt of Methylglycine diacetic acid (MGDA)	Liquid	40	approx. 11.0	–	approx. 1.31		✓
Trilon M Max BioBased Gran		Granules	79	approx. 11.5	approx. 760	–	✓	✓
Trilon M Max EcoBalanced		Liquid	40	approx. 11.0	–	approx. 1.31	✓	✓
Trilon P Liquid	Modified anionic Polyamine	Liquid	40	approx. 11.0	–	approx. 1.21		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable

Micronutrients

Product	Chemical nature	Metal concentration [%]
Chaufer	Iron EDDHA Chelate	6 (5% ortho-ortho)
Libfer SP		6 (4% ortho-ortho)
Librel Fe-HI	Iron EDDHA / EDTA Chelate	7
Librel Fe-LO	Iron EDTA Chelate	13.2
Librel Ca	Calcium EDTA Chelate	9.5
Librel Cu	Copper EDTA Chelate	14
Librel Mn	Manganese EDTA Chelate	13
Librel Zn	Zinc EDTA Chelate	14



Metal Surface Treatment

Chemicals for Electroplating

Product	Chemical nature	Physical Form	Concentration [%]	Bio-based carbon[1]	Biodegradability[2]
Golpanol ALS	Sodium allylsulphonate	Liquid	25		✓
Golpanol ALS 35		Liquid	35		✓
Golpanol HD	3-Hexyne-2,5-diol	Liquid	80		
Golpanol MBS Granules N*	Sodium nitrobenzene sulphonate	Granules	≥ 92		
Golpanol PA	Propargyl alcohol	Liquid	≥ 99.3		✓
Golpanol PS	Sodium propargyl sulphonate	Liquid	20		
Golpanol VS	Sodium vinyl sulphonate	Liquid	25.5		
Lugalvan ANA	4-Methoxybenzaldehyde (p-anisaldehyde)	Liquid	≥ 98.5		✓
Lugalvan BNO 12	beta-Naphthol ethoxylate	Crystals in block form	99		
Lugalvan BNS	Aqueous solution based on beta-naphtholethoxylate, sulfonated, sodium salt	Liquid	50		
Lugalvan BPC 48	Benzylpyridinium-3-carboxylate	Liquid	48		
Lugalvan G 35	Low-molecular polyethylene imine	Liquid	50		
Lugalvan G 15000	High-molecular polyethylene imine	Liquid	50		
Lugalvan HS 1000	Thiodiglycol ethoxylate	Solid	≥ 98		✓
Lugalvan IMZ	Imidazole	Flakes	≥ 99.5		✓
Lugalvan IZE	Addition product of imidazole and epichlorohydrin	Liquid	45		
Lugalvan P	Polymer of a quaternary ammonium salt in water	Liquid	≥ 62		
Lutron PVI	Quaternary polyvinylimidazolium salt in water	Liquid	44		
Lugalvan SOR	Aqueous alkylpolyglucoside	Liquid	approx. 65	✓	✓
Lutron HF 1	Modified polyglycol ether	Liquid	100		
Lutron KS 1		Liquid	100		
Lutron Q 75	N,N,N',N'-tetrakis-(2-hydroxypropyl)-ethylenediamine	Liquid	75		

Organic Sealers

Product	Chemical nature	Physical Form	Concentration [%]	Bio-based carbon[1]	Biodegradability[2]
Lugalvan DC	Aqueous emulsion of an ethylene copolymer	Liquid	21		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable
* neutralized

Corrosion Inhibitors

Product	Chemical nature	Physical Form	Concentration [%]	Biodegradability[2)]
Konratin TC-SH	N-Oleoylsarcosine	Liquid	100	
Korantin MAT	Aliphatic dicarboxylic acid monoalkylamide in triethanolamine	Liquid	100	

Biocides

Product	Chemical nature	Concentration [%]	Physical form [23 °C]	CAS Number (active substance)
Protectol BN	Bronopol	≥ 99	Solid	52-51-7
Protectol BN CO		≥ 99	Solid	52-51-7
Protectol GA 24	Glutaraldehyde	approx. 24	Liquid	111-30-8
Protectol GA 24 AS		approx. 24	Liquid	111-30-8
Protectol GA 50		approx. 50	Liquid	111-30-8
Protectol GA 50 AS		50 – 51	Liquid	111-30-8
Protectol GA 50 non BPR		approx. 50 – 51	Liquid	111-30-8
Protectol FM 75	Formic acid	≥ 75	Liquid	64-18-6
Protectol FM 85		≥ 85	Liquid	64-18-6
Protectol FM 99		≥ 99	Liquid	64-18-6
Protectol PE	Phenoxyethanol	≥ 99.5	Liquid	122-99-6
Protectol NP S	n-Propanol	≥ 99.9	Liquid	71-23-8
Protectol HT	Hexadydrotriazine	74 – 78	Liquid	4719-04-4

[2)] According to OECD 301. In case of mixtures all organic components are readily biodegradable

Requirement for the European Regulation EU/528/2012 (Biocidal Products Regulation)
Use biocides safely. Always read the label and product information before use.

Methane Sulfonic Acid

Product	Chemical nature	Physical Form	Concentration [%]	Density [g/cm³]	Melting point [°C]	Biodegradability[2]
Lutropur MSA	Methanesulfonic acid in water	Liquid	70	approx. 1.35	–	
Lutropur MSA-SP		Liquid	70	approx. 1.35	–	
Lutropur MSA-XP		Liquid	94	approx. 1.46	–	
Lutropur MSA 100	Methanesulfonic acid	Liquid	100	approx. 1.48	20	

Esters and Amides

Esters

Product	Chemical nature	Concentration [%]	Physical form [23 °C]	Viscosity [mPa·s]	Bio-based carbon[1]	Biodegradability[2]
Agnique AE 3-2EH	2-Ethylhexyl-lactate	≥ 98	Liquid	< 10		
Agnique AE 1218-2 EH	2-Ethylhexyl cocoate	≥ 98	Liquid	< 10		
Agnique AE 829	1,2-Cyclohexane dicarboxylic acid di-isononyl ester	≥ 99	Liquid	approx. 50		
Agnique ME 18 RD-F	Rapeseed oil fatty methyl ester	≥ 99	Liquid	< 10		
Agnique ME 18 SD-F	Soybean oil fatty methyl ester	≥ 99	Liquid	< 10		
Agnique ME 1218	$C_{12\text{-}18}$-Fatty acid methyl ester	≥ 99	Liquid	< 10		
Emulgator S GS	$C_{16\text{-}18}$-Fatty acid, esters with pentaerythritol	≥ 99	Solid	–		

Amides

Product	Chemical nature	Concentration [%]	Physical form [23 °C]	Viscosity [mPa·s]	Bio-based carbon[1]	Biodegradability[2]
Agnique AMD 3 L	Dimethyl lactamide	≥ 98	Liquid	< 10		
Agnique AMD 810	$C_{8/10}$ N,N-dimethyl amide	≥ 98	Liquid	< 10		
Agnique AMD 10	C_{10} N,N-dimethyl amide	≥ 98	Liquid	< 10		
Agnique AMD 12	C_{12} N,N-dimethyl amide	≥ 96	Liquid	< 10		

[1] According to the EN17035 surfactant classification
[2] According to OECD 301. In case of mixtures all organic components are readily biodegradable

Product classification	Bio-based carbon [X% of total C]	Icon
Wholly bio-based	X ≥ 95	
Majority bio-based	95 > X > 50	
Minority bio-based	50 ≥ X > 5	
Non bio-based	X ≤ 5	

Biodegradability	Icon
Readily biodegradable	
Not readily biodegradable	

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Soluble Silicates

Potassium Silicates

Product	Molar ratio [SiO_2/Alk_2O]	Physical Form	Concentration [%]	Density [g/ccm]	Viscosity [mPa·s]
Trasol K TV 40	3.35	Liquid	39	approx. 1.37	approx. 500
Trasol K TU 54	2.4	Liquid	54	approx. 1.60	approx. 500
Potassium Silicate 42/43	2.9	Liquid	41	approx. 1.42	approx. 50
Trasol KC-K	3.95	Liquid	20	approx. 1.17	approx. 5
Trasol KE-K	3.9	Liquid	28	approx. 1.25	approx. 20
Trasol KH-K	3.5	Liquid	35	approx. 1.33	approx. 50
Trasol KW-N	4	Liquid	29	approx. 1.26	approx. 40

Sodium Silicates

Product	Molar ratio [SiO_2/Alk_2O]	Physical Form	Concentration [%]	Density [g/ccm]	Viscosity [mPa·s]
Hyporan 10	2.05	Liquid	42	approx. 1.50	approx. 200
Nuclesil 70	2.85	Liquid	45	approx. 1.51	approx. 1300
Nuclesil 80	2.3	Liquid	44	approx. 1.51	approx. 350
Trasol N PU 44	2.65	Liquid	40	approx. 1.44	approx. 100
Perpura 35	3.6	Liquid	37	approx. 1.38	approx. 600
Perpura 38	3.45	Liquid	36	approx. 1.35	approx. 60
Portil A	2.1	Solid	80	–	–
Sodium Silicate 37/40	3.4	Liquid	35	approx. 1.35	approx. 70
Sodium Silicate 37/40 PE	3.45	Liquid	36	approx. 1.37	approx. 140
Sodium Silicate 40/42	3.45	Liquid	38	approx. 1.40	approx. 500
Sodium Silicate 47/48	2.7	Liquid	43	approx. 1.49	approx. 400
Sodium Silicate 48/50	2.85	Liquid	45	approx. 1.51	approx. 2000
Sodium Silicate HK 30 PG	4	Liquid	28	approx. 1.28	approx. 60

Carbonates

Product	Chemical nature	Physical Form [23 °C]	Concentration [%]	Density [g/ccm]	Melting point [°C]	Boiling point [°C]	CAS Number
Ethylene Carbonate S	Ethylenecarbonate	Solid	≥ 99,5	1.345 (20°C)	36	246	96-49-1
Propylene Carbonate S	Propylencarbonate	Liquid	≥ 99,7	1.2047 (20°C)	-48,8	241,8	108-32-7

Test methods for Sokalan types

Physical form	at 25 °C
Concentration	ISO 3251 drying to constant mass
Average molar mass	Gel Permeation Chromatography (calibration with polystyrene sulfonates/or polyacrylates)
pH-value	DIN 19268, 10% dry substance in dist. water
Bulk density	ISO 697
Density	DIN 51757, 25 °C
Viscosity	Brookfield, 25 °C, undiluted

Test methods for Rheovis types

Physical form	at 25 °C
Concentration	specific for each product, please refer to the Product Specification
pH-value	DIN 19268, 1% in dist. water
Bulk density	ISO 697
Density	DIN 51757, 25 °C
Viscosity	Brookfield, 25 °C, undiluted

Waxes and Wax Emulsions

Polyethylene Waxes

Product	Chemical nature	Physical Form [23 °C]	Melting point DSC [°C]	Acid number [mg KOH/g]	Ball hardness* [N/mm²]
Poligen Wax OA 3 Powder	Oxidized polyethylene waxes, emulsifiable	Powder	126 – 133	20 – 24	60 – 70
Poligen Wax OA 6 Powder		Powder	126 – 133	17.5 – 19	56 – 66

Polyether Wax

Product	Chemical nature	Physical Form [23 °C]	Melting point DSC [°C]	Acid number [mg KOH/g]	Ball hardness* [N/mm²]
Poligen Wax V Flakes	Polyvinyl ether wax	Flakes	47 – 51	0	28 – 32

Wax Emulsions

Product	Chemical nature	Solids content [%]	pH	Flow time [s]	Melting point of the wax [°C]	Emulsifier system
Poligen WE 1	Oxidized polyethylene wax	34 – 35	9 – 10	20 – 36	126 – 133	Nonionic/anionic
Poligen WE 3	Ethylene copolymer wax	24 – 26	8.5 – 9.5	< 85**	approx. 80	Free of emulsifier
Poligen WE 6	Oxidized polyethylene	33 – 35	7.5 – 9.5	20 – 60	126 – 133	Nonionic/anionic APEO free

* Fischer, 23 °C, DIN EN ISO 6507-1
** ISO cup 5mm

Notes

Notes

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