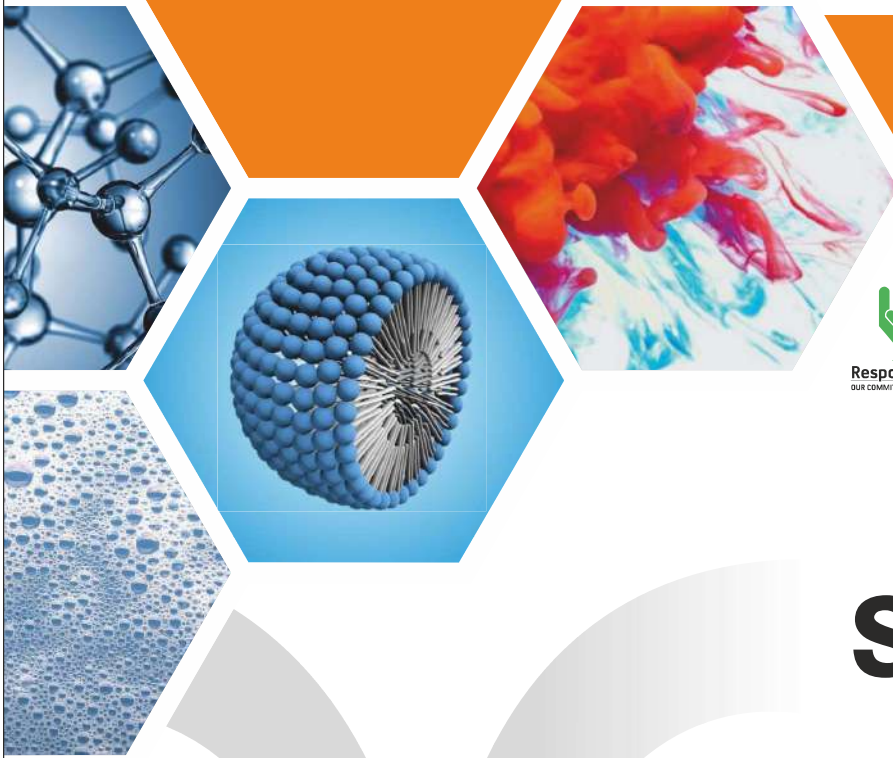




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& ISO 45001:2018) Certified Company*

Surfactants

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Natural Fatty Alcohol Ethylene Oxide Condensates

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL AL 200	C12-14 Alcohol Ethoxylates	68439-50-9	Liquid	> 99.5	29 - 32/A	196 - 202	6.0 ± 0.5	✓	✓	✓	✓		✓		
VICORYL AL 250	C12-14 Alcohol Ethoxylates	68439-50-9	Liquid	> 99.5	32 - 40/A	184 - 188	7.2 ± 0.5								
VICORYL AL 300	C12-14 Alcohol Ethoxylates	68439-50-9	Liquid	> 99.5	46 - 50/C	171 - 178	8.0 ± 0.5								
VICORYL AL 400	C12-14 Alcohol Ethoxylates	68439-50-9	Liquid	> 99.5	65 - 70/H	145 - 155	9.5 ± 0.5								
VICORYL AL 600	C12-14 Alcohol Ethoxylates	68439-50-9	Turbid Liquid	> 99.5	42 - 46/B	114 - 126	11.4 ± 0.5								
VICORYL AL 700	C12-14 Alcohol Ethoxylates	68439-50-9	Turbid Liquid	> 99.5	55 - 60/B	105 - 115	10.8 ± 0.5								
VICORYL AL 800	C12-14 Alcohol Ethoxylates	68439-50-9	Turbid Liquid	> 99.5	66 - 68/B	98 - 105	12.8 ± 0.5								
VICORYL AL 900	C12-14 Alcohol Ethoxylates	68439-50-9	Turbid Liquid	> 99.5	62 - 64/J	93 - 97	13.3 ± 0.5								
VICORYL AL 100A	C12-14 Alcohol Ethoxylates	68439-50-9	Turbid Liquid	> 99.5	86 - 90/B	90 - 103	13.8 ± 0.5								
VICORYL AL 165A	C12-14 Alcohol Ethoxylates	68439-50-9	Waxy Solid	> 99.5	75 - 81/K	55 - 65	15.7 ± 0.5								
VICORYL AL 180A	C12-14 Alcohol Ethoxylates	68439-50-9	Waxy Solid	> 99.5	74 - 76/D	55 - 65	15.7 ± 0.5								
VICORYL AL 230A	C12-14 Alcohol Ethoxylates	68439-50-9	Waxy Solid/Flakes	> 99.5	76 - 80/D	40 - 45	16.7 ± 0.5								
VICORYL AL 400A	C12-14 Alcohol Ethoxylates	68439-50-9	Waxy Solid/Flakes	> 99.5	78 - 80/D	30 - 40	18.0 ± 0.5								
VICORYL AL 4070	C12-14 Alcohol Ethoxylates	68439-50-9	Liquid	Approx 70	78 - 82/D	30 - 40	18.0 ± 0.5								

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL CS 05	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy semi solid	> 99.5	69 - 72/F	110 - 125	9.0 ± 0.5	✓	✓	✓	✓				Oil & Gas
VICORYL CS 10	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy semi solid	> 99.5	88 - 92/C	73 - 80	12.5 ± 0.5								
VICORYL CS 20	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy Flakes	> 99.5	75 - 80/D	40 - 52.5	15.4 ± 0.5								
VICORYL CS 25	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy Flakes	> 99.5	76 - 80/D	38 - 46	16.1 ± 0.5								
VICORYL CS 50	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy Flakes	> 99.5	73 - 79/D	20 - 25	17.9 ± 0.5								
VICORYL CS 80	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy Flakes	> 99.5	76 - 79/D	12.5 - 16.5	20.0 ± 0.5								
VICORYL E WAX	C16-18 Alcohol Ethoxylates	68439-49-6	White to creamy Flakes	> 99.5	—	170 - 190	—								

Product Name	Composition	Cas Number	Appearance @ 25°C	pH Range	Iodine Value	Acid Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL OC 200	Oleryl Cetyl Alcohol Ethoxylates	68920-66-1	Clear /Slight hazy colourless to pale yellow liquid	6.0 - 7.50	36 - 40	0.50 Max	5.20 ± 0.5				✓	✓			Automotive
VICORYL OC 500	Oleryl Cetyl Alcohol Ethoxylates	68920-66-1	Opaque /White to off-white liquid	6.0 - 7.50	25 - 29	0.50 Max	9.25 ± 0.5								
VICORYL OC 100A	Oleryl Cetyl Alcohol Ethoxylates	68920-66-1	White soft solid	6.0 - 7.50	17 - 25	0.50 Max	12.60 ± 0.5								
VICORYL OC 250 A	Cetyl Oleryl Alcohol Ethoxylates	68920-66-1	White paste	6.0 - 7.50	8 - 12	0.50 Max	16.0 ± 0.5								

*** We have ethoxylates of Cetyl Oleryl Alcohol (50:50) & Cetyl Oleryl Alcohol (65:15)

Glycerol Ethylene Oxide Condensates

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	pH Range (2%)	Hydroxyl Value mgKOH/g	Solubility	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VISCASPIN GLE 700	Glycerol Ethoxylates	31694-55-0	Liquid	> 99.5	5-8	400- 425	Soluble								Paper, Oil & Gas
VISCASPIN GLE 800	Glycerol Ethoxylates	31694-55-0	Liquid	> 99.5	5-8	340 -355	Soluble	✓	✓		✓	✓	✓		
VISCASPIN GLE 120A	Glycerol Ethoxylates	31694-55-0	Flakes	> 99.5	5-8	260- 280	Soluble	✓	✓		✓	✓	✓		
VISCASPIN GLE 260	Glycerol Ethoxylates	31694-55-0	Flakes	> 99.5	5-8	128 -168	Soluble				✓	✓	✓		

Castor oil Ethylene Oxide condensates	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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90	90
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92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	pH Range (2%)	Saponification Value mgKOH/g	HBL Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VISCO 02	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	160 - 170	1.5 ± 0.5	✓	✓	✓	✓	✓		✓	Oil & Gas, Paper, Leather
VISCO 04	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	140 -150	3.5 ± 0.5								
VISCO 10	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	115 - 125	6.5 ± 0.5								
VISCO 11	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	115 - 125	6.5 ± 0.5								
VISCO 12	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	115 - 125	6.7 ± 0.5								
VISCO 15	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	95 -105	8.2 ± 0.5								
VISCO 20	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	85 - 95	10.0 ± 0.5								
VISCO 25	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	75 - 85	10.7 ± 0.5								
VISCO 30	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	65 -75	11.8 ± 0.5								
VISCO 32	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	65 -75	12.2 ± 0.5								
Visco 35	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	55-70	12.5 ± 0.5								
VISCO 36	Castor Oil Ethoxylates	61791-12-6	Liquid	> 99.5	5-8	55 -70	13.0 ± 0.5								
VISCO 40	Castor Oil Ethoxylates	61791-12-6	Viscous liquid /Paste	> 99.5	5-8	55 - 65	13,2 ± 0.5								
VISCO 48	Castor Oil Ethoxylates	61791-12-6	Viscous liquid /Paste	> 99.5	5-8	50 - 55	14,0 ± 0.5								
VISCO 60	Castor Oil Ethoxylates	61791-12-6	Paste	> 99.5	5-8	40 - 50	15,0± 0.5								
VISCO 70	Castor Oil Ethoxylates	61791-12-6	Waxy solid	> 99.5	5-8	40-50	14,8 ± 0.5								
VISCO 200	Castor Oil Ethoxylates	61791-12-6	Solid/Flakes	> 99.5	5-8	14 - 20	18,0 ± 0.5								

Hydrogenated Castor oil Ethylene Oxide condensates	
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
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15	100
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95	100
96	100
97	100
98	100
99	100
100	100

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	pH Range (2%)	Saponification Value mgKOH/g	HBL Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VISCO RH 16	Hydrogenated castor oil Ethoxylates	61788-85-0	Liquid	> 99.5	-	95 - 105	8.2 ± 0.5	✓	✓			✓			
VISCO RH 20	Hydrogenated castor oil Ethoxylates	61788-85-0	Yellow soft pastyliquid	> 99.5	50 - 65/A	85 -100	10.0 ± 0.5								
VISCO RH 40	Hydrogenated castor oil Ethoxylates	61788-85-0	Yellow soft pastyliquid	> 99.5	52 - 54/D	45 - 65	13.0 ± 0.5								
VISCO RH 60	Hydrogenated castor oil Ethoxylates	61788-85-0	Yellow soft pastyliquid	> 99.5	80 - 90/A	40 - 50	15.0 ± 0.5								

Fatty Acid Ethylene Oxide Condensates

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VISACID SA 06	Stearic acid Ethoxylates	9004-99-3	Liquid	> 99.0	58 - 62/C	95 - 105	10.0 ± 0.5	✓	✓	✓	✓	✓		✓	Leather
VISACID SA 08	Stearic acid Ethoxylates	9004-99-3	Turbid Liquid / Paste	> 99.0	63 - 67/C	75 - 92	11.2 ± 0.5								
VISACID SA 40	Stearic acid Ethoxylates	9004-99-3	White waxy solid / Flakes	> 99.0	64S - 67/D	25 - 35	17.3 ± 0.5								

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VISACID OA 06	Oleic Acid Ethoxylates	9004-96-0	Liquid	> 99.0	49- 52/C	110 - 130	9.3 ± 0.5		✓			✓		✓	
VISACID OA 08	Oleic Acid Ethoxylates	9004-96-0	Liquid	> 99.0	64- 68/H	75 - 90	11.0 ± 0.5								
VISACID OA 10	Oleic Acid Ethoxylates	9004-96-0	Liquid	> 99.0	72- 74/C	75 - 81	12.1 ± 0.5								

Product Name	Composition	Gas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
Vicasid CF 100A	Cocofatty acid Ethoxylates	61791-29-5	Liquid	> 99.0	–	80-95	13.5 ± 0.5		✓			✓		✓	

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
Vicasid LA 100A	Lauric Acid Ethoxylates	9006-28-4	Liquid	> 99.0	–	80-90	13.5 ± 0.5		✓	✓		✓		✓	

[illegible]

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAMINE CCA 20	Cocomine Ethoxylates	61791-14-8	Liquid	> 99.5	-	195 - 200	4.5 ± 0.5	✓				✓			Refinery
VICAMINE CCA 100	Cocomine Ethoxylates	61791-14-8	Liquid	> 99.5	76 - 78/D	82 - 86	12.1±0.5								
VICAMINE CCA 110	Cocomine Ethoxylates	61791-14-8	Liquid	> 99.5	76 - 80/D	83 - 87	12.1±0.5								
VICAMINE CCA 150	Cocomine Ethoxylates	61791-14-8	Liquid	> 99.5	80 - 85/D	62 - 68	14 ± 0.5								

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Saponification value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAMINE TA 100	Tallow Amine Ethoxylates	61791-26-2	Viscous liquid/Paste	> 99.5	85 - 90/B	80 - 90	12.1 ± 0.5	✓				✓			Refinery
VICAMINE TA 150	Tallow Amine Ethoxylates	61791-26-2	Viscous liquid/Paste	> 99.5	78 - 82/D	58 - 66	14.0 ± 0.5								
VICAMINE TA 200	Tallow Amine Ethoxylates	61791-26-2	Paste /Solid	> 99.5	84 - 86/D	45 - 52	15.1 ± 0.5								
VICAMINE TA 250	Tallow Amine Ethoxylates	61791-26-2	Paste /Solid	> 99.5	84 - 88/D	36 - 43	16.0 ± 0.5								

Alkyl Phenol Ethylene Oxide Condensates

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VINOL RE 50	Nonyl Phenol Ethoxylates	9016-45-9	Liquid	> 99.5	46 - 48/C	130 - 140	9.5 ± 0.5	✓			✓	✓	✓	✓	Paper & pulp, Leather, Oilfield, Acrylic industry
VINOL RE 100/6	Nonyl Phenol Ethoxylates	9016-45-9	Liquid	> 99.5	61 - 63/C	110 - 120	10.9 ± 0.5								
VINOL RE 950	Nonyl Phenol Ethoxylates	9016-45-9	Liquid	> 99.5	56 - 60/B	85 - 95	13.1 ± 0.5								
VINOL REMF 100	Nonyl Phenol Ethoxylates	9016-45-9	Turbid Viscous Liquid	> 99.5	60 - 62/B	80 - 90	13.3 ± 0.5								
VINOL REMF130	Nonyl Phenol Ethoxylates	9016-45-9	Turbid Viscous Liquid	> 99.5	88 - 91/B	68 - 75	14.4 ± 0.5								
VINOL REMF 150	Nonyl Phenol Ethoxylates	9016-45-9	Turbid Viscous Liquid / Paste	> 99.5	94 - 96/B	60 - 67	15.0 ± 0.5								
VINOL REMF 200	Nonyl Phenol Ethoxylates	9016-45-9	Paste / Waxy Solid	> 99.5	72 - 74/D		16.0 ± 0.5								
VINOL REMF 200 AD	Nonyl Phenol Ethoxylates	9016-45-9	Liquid	Approx 80	73-77/D	47 - 55	16.0 ± 0.5								
VINOL REMF 250	Nonyl Phenol Ethoxylates	9016-45-9	Waxy Solid	> 99.5	72 - 76/D	40 - 45	16.0 ± 0.5								
VINOL REMF 300	Nonyl Phenol Ethoxylates	9016-45-9	Paste / Waxy Solid	> 99.5	76 - 78/D	34 - 39	17.1 ± 0.5								
VINOL REMF 400	Nonyl Phenol Ethoxylates	9016-45-9	Solid/ Flakes	> 99.5	76 - 78/D	25 - 30	17.1 ± 0.5								
VINOL REMF 400 - AD	Nonyl Phenol Ethoxylates	9016-45-9	Liquid	Approx 70	72 - 77/D	25 - 30	17.1 ± 0.5								

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VINOL CP 04	Card Phenol Ethoxylates	9016-45-9	Liquid	> 99.5	62 - 68/H	135 -145	8.5 ± 0.5	✓							
VINOL CP 06	Card Phenol Ethoxylates	9016-45-9	Liquid	> 99.5	68 - 72/H	100 -110	10.5± 0.5		✓	✓					
VINOL CP 10	Card Phenol Ethoxylates	9016-45-9	Liquid	>99.5	56 - 60/B	75 -85	12.3±0.5								

Product Name	Composition	Gas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VINOL REX 80	Octyl Phenol Ethoxylates	9002-93-1	Viscous Liquid	> 99.5	29-31/B	95 - 105	12.0 ± 0.5	✓			✓				
VINOL REX 100	Octyl Phenol Ethoxylates	9002-93-1	Viscous Liquid	> 99.5	65 - 69/B	80 - 92	13.5 ± 0.5								
VINOL REX 150	Octyl Phenol Ethoxylates	9002-93-1	Viscous Liquid	> 99.5	—	60 - 67	15.0 ± 0.5								
VINOL REX 250	Octyl Phenol Ethoxylates	9002-93-1	Solid	> 99.5	72 - 77/D	40 - 45	16.8 ± 0.5								
VINOL REX 400	Octyl Phenol Ethoxylates	9002-93-1	Solid / Flakes	> 99.5	74 - 76/D	25 - 30	17.8 ± 0.5								
VINOL REX 405	Octyl Phenol Ethoxylates	9002-93-1	Liquid	Approx 70	74 - 76/D	25 - 30	17.8 ± 0.5								

Styrenated Phenol Ethylene Oxide Condensates

Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	Cloud Point °C	Hydroxyl Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICATEX RSP 157 (M)	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	75 - 78/B	40 - 60	14.0 ± 0.5	✓		✓	✓	✓			
VICATEX RSP 157	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	75 - 78/B	40 - 50	13.5 ± 0.5								
VICATEX RSP 280	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	28 - 32/G	25 - 40	16.7 ± 0.5								
VICATEX RSP 450	Styrenated Phenol Ethoxylates	99734-09-5	Semisolid / Solid	> 99.5	70 - 73/D	15 - 30	13.5 ± 0.5								
Vicatex SP 20	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	75 - 78/B	40 - 50	14.3 ± 0.5								
Vicatex SP 15	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	56-60/B	50 - 60	14.0 ± 0.5								
Vicatex SP 16	Styrenated Phenol Ethoxylates	99734-09-5	Viscous Liquid / Semisolid	> 99.5	56-60/B	50 - 60	14.0 ± 0.5								
Vicatex SP 50	Styrenated Phenol Ethoxylates	99734-09-5	Semisolid / Solid	> 99.5	70 - 76/D	20- 25	17.0 ± 0.5								

Glycol Esters

Product Name	Composition	Cas Number	Appearance @ 25°C	Acid Value mgKOH/g	Iodine Value	Saponification Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAPEG 200 ML	PEG 200 monoaurate	9004-81-3	Liquid	< 5	< 5	130 - 140	9	✓	✓	✓	✓	✓		✓	
VICAPEG 400 DL	PEG 400 Distearate	9004-81-3	Liquid	<10	< 5	125 - 135	10								
VICAPEG 400 MS	PEG 400 Monostearate	9004-99-3	Liquid	< 5	< 5	80 - 90	12								
VICAPEG 400 DS	PEG 400 Distearate	9005-08-7	Liquid	<10	< 5	115 - 125	8 - 9								
VICAPEG 400 MO	PEG 400 Monooleate	9004-96-0	Liquid	< 5	35 - 45	80 - 90	11-12								
VICAPEG 400 DO	PEG 400 Dioleate	9005-07-6	Liquid	<10	65 - 80	110 - 135	8 - 8.5								
VICAPEG 600 MO	PEG 600 Monooleate	9005-07-6	Liquid	< 5	25-35	60 - 70	13 - 14								
VICAPEG 600 DO	PEG 600 Dioleate	9005-07-6	Liquid	<10	55- 65	90 - 100	10 - 11								
VICAEST PDS	PEG 6000 DISTEARATE	9005-08-7	Off white waxy solid / Flakes	12 Max	<1	12 - 20	52 - 57								

Product Name	Composition	Cas Number	Appearance @ 25°C	Acid Value mgKOH/g	Specific Gravity @ 20°C	Saponification Value mgKOH/g	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAEST BS	Butyl Stearate	123-95-5	Liquid	5 Max	0.89	160 - 170	>5		✓				✓	✓	Paper, Rubber & Tire, Polymers & Plastics
VICAEST TDS	Tridecyl alcohol stearate	31556-45-3	Liquid	3 Max	0.860 - 0.880	125 - 135	>5				✓		✓		

Sulphates

[illegible]

Phosphated esters

Product Name	Composition	Cas Number	Appearance @ 25°C	Solid Content %	pH 1% Aq Solution	Solubility in Water	Ionic Nature	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAEST AL 700 PE	Lauryl alcohol ethoxylate Phosphated ester	39464-66-9	Liquid	> 99.0	2 to 4	Soluble	Anionic								Oilfield, Cutting and Grinding Fluids, Traffic Film Removal, Paper De-inking, Emulsion Polymerisation
VICAEST 13 P	Tridecyl alcohol ethoxylate Phosphated ester	9046-01-9	Liquid	> 99.0	2 to 4	Soluble	Anionic	✓		✓		✓		✓	
VINOL RE 610	Nonyl phenol ethoxylate Phosphated ester	—	Liquid	> 99.0	2 to 4	Soluble	Anionic								

Product Name	Composition	Cas Number	Appearance @ 25°c	Solid content%	pH 5% Aq Solution	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
DOSS	Diocetyl sulfosuccinate	577-11-7	Liquid	25 - 70	5 -8	✓	✓		✓	✓			Water treatment
DJSS	Disodecyl sulfosuccinate	29857-13-4	Liquid	70	5 -8								

Ethylene Oxide /Propylene Oxide based Random & Block Copolymers

Product Name	Composition	Cas Number	Appearance @ 25°c	Active content %	Cloud point °c	pH Range	HLB Value	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICASURF L 61	Difunctional block copolymer	9003-11-6.	Liquid	> 99.5	22-26	5.0 - 7.0	1 - 7.	✓		✓	✓	✓		✓	Oil & Gas, Water Treatment, Pulp & Paper
VICASURF L 62	Difunctional block copolymer	9003-11-6.	Liquid	> 99.5	30 - 34	5.0 - 7.0	1 - 7.								
VICASURF L 64	Difunctional block copolymer	9003-11-6.	Liquid	> 99.5	56 - 60	5.0 - 7.0	1 - 7.								
VICASURF DF 5004	C12-14 Alcohol alkoxylate	68439-51-0	Clear/Turbid liquid	> 99.5	28 - 31 / B	6.50 - 7.50	1 - 7.	✓	✓	✓		✓			
VICASURF DF 4005	C12-14 Alcohol alkoxylate	68439-51-0	Clear/Turbid liquid	> 99.5	20 - 22/B	6.50 - 7.50	1 - 7.								
VICASURF DF 9000	C12-14 Alcohol alkoxylate	68439-51-0	Clear liquid	> 99.5	37 - 41 / F	5.0 - 7.50	1 - 7.								
VICASURF DF 4001	C12-14 Alcohol alkoxylate	68439-51-0	Clear liquid	> 99.5	46 - 51 / F	5.0 - 7.50	1 - 7.								
VICASURF DF 4003	C12-14 Alcohol alkoxylate	68439-51-0	Clear/Cloudy viscous liquid	> 99.5	41 - 45 / F	6.0 - 8.50	1 - 7.								
VICASURF DN 4022	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	-	5.0-8.0	1 - 7.								
VICASURF DN 7009	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	37 - 45 /B	5.0 - 7.0	1 - 7.								
VICASURF DN 6009	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	09 - 11/B	6.50 - 7.50	1 - 7.								
VICASURF DN 6014	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	26 - 28 /B	6.50 - 7.50	1 - 7.								
VICASURF DN 7014	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	25 - 31 /B	5.0 - 7.0	1 - 7.								
VICASURF DN 7005	C10 Alcohol alkoxylate	61827-42-7	Clear/Turbid liquid	> 99.5	37 - 42 / B	5.0 - 7.0	1 - 7.								
VICASURF DT 9002	Isotridecanol Alkoxylate	69013-18-9	Clear/Cloudy viscous liquid	> 99.5	64 - 68 /B	6.0 - 8.0	1 - 7.	✓		✓	✓				
VICASURF DT 7010	Isotridecanol Alkoxylate	69013-18-9	Clear liquid	> 99.5	72 - 76 /B	6.0 - 8.0	1 - 7.								
VICASURF HE 37	2-Ethyl Hexanol Alkoxylate	26468-96-0	Clear liquid	> 99.5	40 - 45 /C	5.50 - 7.00	1 - 7.	✓	✓	✓	✓				
VICASURF CFA 8021	Cocofattyacid alkoxylate	126645-98-5	Clear/Turbid liquid	> 99.5	48 - 52 / F	6.00 - 8.00	1 - 7.								
VICASURF 1010	Diethylene Glycol alkoxylate	9003-11-6.	Clear liquid	> 99.5	53 - 59 / L	6.50 - 7.50	1 - 7.	✓	✓	✓	✓				
VICASURF ED 2020	Ethylene diamine alkoxylate	26316-40-5	Clear liquid	> 99.5	-	7.5 to 10	1 - 7.	✓	✓	✓	✓				

Methoxy Polyethylene glycol

VICAMOL Polyethylene Glycol															
Product Name	Composition	Cas Number	Appearance @ 25°C	Molecular weight g/mole	Colour APHA	pH (5% Aq)	Moisture content %	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICAMOL MPEG 350	Methoxy polyethylene glycol	9004-74-4	Clear liquid	325-375	100 Max.	4.5-7.5	0.50 Max.						✓		
VICAMOL MPEG 500	Methoxy polyethylene glycol	9004-74-4	Clear liquid	475 - 525	100 Max	4.5-7.5	0.50 Max								
VICAMOL MPEG 750	Methoxy polyethylene glycol	9004-74-4	Paste	700 - 800	100 Max	5.50 - 7.50	0.50 Max								
VICAMOL MPEG 1000	Methoxy polyethylene glycol	9004-74-4	Solid	900 - 1100	100 Max	5.5-7.5	0.50 Max								
VICAMOL MPEG 2200	Methoxy polyethylene glycol	9004-74-4	Pasty white solid / White solid	2100 - 2300	100 Max	5.5-7.5	0.10 Max								
VICAMOL MPEG 3000	Methoxy polyethylene glycol	9004-74-4	Solid	2850 - 3150	100 Max	5.5-7.5	0.50 Max								

VPEGs Series															
Product Name	Composition	Cas Number	Appearance @ 25°C	Molecular weight g /mole	Colour APHA	pH (5% Aq)	Moisture content %	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL VPEG 2400	Methallyloxypolyethyleneglycol 2400	31497-33-3	White to off white solid / Flakers	2200 - 2600	80 Max	5.5 – 7.5	0.50 Max								
VICORYL VPEG 4000	Methallyloxypolyethyleneglycol 4000	31497-33-3	Solid / Flakers	3800 -4200	100 Max	5.5 – 7.5	0.50 Max								

TPEGs Series															
Product Name	Composition	Cas Number	Appearance @ 25°C	Molecular weight g/mole	Colour APHA	pH (5% Aq)	Moisture content %	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL TPEG 2400	Isoprenol oxypolyethyleneglycol 2400	62601-60-9	White to off white solid / Flakers	2200 - 2600	100 Max	5.5 – 7.5	0.50 Max								

Allyl alcohol ethoxylate														
Product Name	Composition	Cas Number	Appearance @ 25°C	Colour APHA	pH 5% Aq Solution	Moisture content %	Agrochemicals	Personal Care	Homecare	Paint, Pigment & Coating	Textile	Construction	Metal treatment	Other
VICORYL ALE 300	Allyl alcohol ethoxylate	27274-31-3	colorless to light yellow liquid	100 Max	5,5 – 7,5	0.50 Max						✓		
VICORYL ALE 500	Allyl alcohol ethoxylate	27274-31-3	colorless to light yellow liquid	100 Max	5,5 – 7,5	0.50 Max								
VICORYL ALE 700	Allyl alcohol ethoxylate	27274-31-3	colorless to light yellow liquid	100 Max	5,5 – 7,5	0.50 Max								
VICORYL ALE 1000	Allyl alcohol ethoxylate	27274-31-3	White paste / Solid	100 Max	5,5 – 7,5	0.50 Max								
VICORYL ALE 1200	Allyl alcohol ethoxylate	27274-31-3	White to creamy white solid	100 Max	5,5 – 7,5	0.50 Max								
VICORYL ALE 2250	Allyl alcohol ethoxylate	27274-31-3	White solid	100 Max	5,5 – 7,5	0.50 Max								

Alkyl Alkanol Amines									
Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	pH (1% Aq)	Specific gravity @ 20 C	Water content	Application	
VICASOL TEA	Triethanol amine 85%	102-71-6	Clear colourless to pale yellow viscous liquid	> 85	9 to 11,5	Approx 1.12	1.00 Max	Used as Gas sweetening, Detergents, Cleaners, Concrete admixtures, Urethane foam catalysts Personal care products, Agricultural chemicals, Photographic emulsions	
VICASOL TIPA	Tri Isopropanol Amine	122-20-3	Colourless / Pale yellow to amber clear liquid	> 85	9 to 11,5	Approx 1.02	12 to 15	Used as Corrosion Inhibitor, Acid Gas Removal, Grinding Aid, pH Regulator, Pigment Dispersant,	
VICASOL MV 01	Diethanol - Isopropanol amine (DEIPA)	6712-98-7	Clear colourless to pale yellow slight viscous liquid	> 85	9 to 11,5	Approx 1.08	6 to 15	Used as Grinding Aid in Cement and concrete (Construction) , gas treating & Metal treating.	
VICASOL MV 03	Triethanol - Isopropanol amine (TEIPA)	-	Clear Pale yellow to yellow slight viscous liquid	> 85	10 to 12	Approx. 1.1	10 to 12	Used in Construction industry	

Selected Specialities						
Product Name	Composition	Cas Number	Appearance @ 25°C	Active content %	pH Range	
VICASURF BPAP-200	Bisphenol- A PROPOXYLATE	37353-75-6	Off white solid	> 99,5	5,5 - 7,5	Used in unsaturated polyester resins for glass fibre reinforcement , Urethane foams and resins
VINOL BPAP-600	Bisphenol-Ethoxylates	32492-61-8	Liquid	> 99,5	,5 - 9	Wetting agent flow aid , impact strengthner, flexibilizer for coatings, resind and low VOC s
VINOL BNE 100	Beta Naphthol 10 EO	35545-57-4	Liquid	> 99,5	,5 - 8	As a non ionic surfactant in electroplating industry, Auxiliary brightner in Zinc acid electrolytes
VICASOL GE 10	2-PHENOXY ETHANOL	122-99-6	Liquid	> 99,5	5,5 - 7	Application segments include Home and Personal care pharmaceuticals, dyes and inks and others
VICASOLGP10	2-PHENOXY PROPANOL	770-35-4	Liquid	> 99,5	5,5 - 7	Used as a solvent and coalescing agent , electrodeposition coatings textile dyes latex adhesives
VICASOL P	Soya oil ester	61791-23-9	Liquid	—	7,5 - 10	Emulsifier for paint,textile ,agriculture
VICAMOL C22	Paraffin Wax Emulsion	Proprietary blend	milky emulsion	>40	4,5 - 5,5	Used to protect concrete against corrosion and rust to water resistance in Construction
VICAEST SAS	Sodium allyl sulfonate	2495-39-8	Liquid	24-26	10,5 - 11,5	Used in Pharceutical industry, Textile Industry , Polymerization process, Plating Process.
VICAEST SI	Sodium isothionate	1562-00-1	Liquid	48 -52	7,5 - 10	Used in Home & Personal care.
VICAEST SMI	Sodium methyl isothionate	869737-84-8	Liquid	48 -52	7,0 - 10	Used in Home & Personal care.
VISTHEIC	Tris 2 hydroxy ethyl isocyanurate	839-90-7	Solid	> 99,5	,6,0 - 8,0	Plastics adhesives, insulating varnishes for electric wires, water-soluble paints for electrodeposition coating, general oil-based paints, polyvinyl chloride stabilizers, laminates including decorative laminates, or molding and coating resins.

TEST METHODS	
METHOD- A	5 g Surfactant + 20 ml of 25% BDG
METHOD- B	1 g Surfactant + 100 g water
METHOD- C	5 g Surfactant + 25 ml of 25% BDG
METHOD- D	1 g Surfactant + 100 g of 10% NaCl solution
METHOD- E	1 g Surfactant + 25% solution of Acetic acid
METHOD- F	5 g Surfactant + 25g of 25% BDG

TEST METHODS	
METHOD- G	1 g Surfactant + 100 g of 1% Phenol solution
METHOD- H	10 g Surfactant + 100 g of 25% BDG
METHOD- I	10 g Surfactant + 100 g water
METHOD- J	1 g Surfactant + 100 g of 5% NaCl solution
METHOD- K	1 g Surfactant + 100 g of 5% K SO solution
METHOD- L	5 g Surfactant + 95 g of 25% BDG



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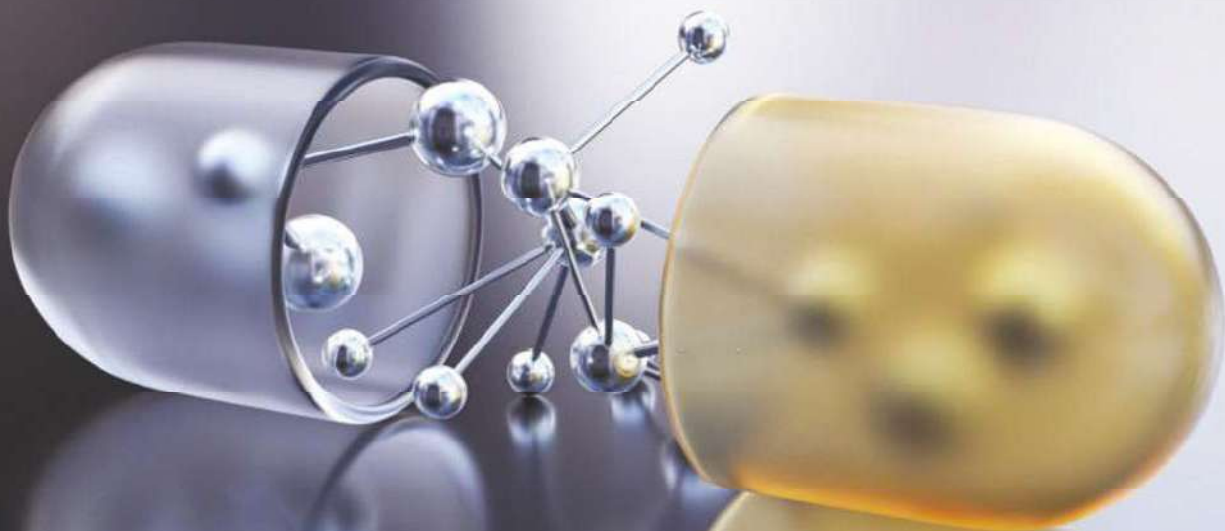
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PHARMA INTERMEDIATE



Pharmaceutical Intermediates

The Pharmaceutical Intermediates are primarily used to manufacture Active Pharmaceutical Intermediates or Bulk Drug Intermediates, which are used in formulation of life enhancing and life saving medicines.

Based on our years of experience, technical innovation and long term research, Viswaat has been involved in developing and manufacturing quality pharmaceutical intermediates. Our prime objective is to obtain customer satisfaction with superior quality products.

VISWAAT's commitment to Research & Development has been duly acknowledged by the Ministry of Science & Technology, GOI and R & D Facility of Viswaat is approved under Department of Science & Industrial Research. Viswaat's Manufacturing Site at Ambernath is a Together for Sustainability (TFS) certified facility.

Product Name	Chemical Name	CAS Number	Application
2 - Chloroethanol	2 - Chloroethanol	107-07-3	Active pharmaceutiual intermediates (Cetirizine, Cetirizine Hydrochloride , Benzothonium Chloride, Preparation of intermediate of Silodosin) and dye intermediate
2-(2-Chloroethoxy) Ethanol	2-(2-Chloroethoxy)Ethanol	628-89-7	Active pharmaceutiual intermediates (Quetiapine fumarate, Hydroxyzine, Cetirizine dihydrochloride) and Organic Synthesis
2 - Diethyl Amino Ethanol	2 - Diethyl Amino Ethanol	100-37-8	Active Pharmaceutical Intermediates, Ion Exchange Resins
2 - (2- DiethylAmino Ethoxy) Ethanol	2 - (2- DiethylAmino Ethoxy) Ethanol	140-82-9	Active Pharmaceutical Intermediates, Cosmetics
1-Dimethylamino 2-Propanol	1-Dimethylamino 2-Propanol	108-16-7	Active Pharmaceutical Intermediates, Cosmetics
2 - (Di-isopropylamino Ethanol	2 - (Di-isopropylamino) Ethanol	96-80-0	Active Pharmaceutical Intermediates (Benzamide preparation) used as a speciality neutralizing amine with markedly superior corrosion inhibiting properties)
N -(2-Hydroxyethyl) Morpholine	N -(2-Hydroxyethyl) Morpholine	622-40-2	Active Pharmaceutical Intermediates and in pharmaceutical formulations (analgesics, local anesthetics , antiboitics, antiplaque)
– (2- Hydroxyethyl) Pyrrolidine	– (2- Hydroxyethyl) Pyrrolidine	2955-88-6	Active Pharmaceutical Intermediates.
N - (2 - Hydroxyethyl) Piperidine	N - (2 - Hydroxyethyl) Piperidine	3040-44-6	Active Pharmaceutical Intermediates, Organic Synthesis
N - (2 - Hydroxyethyl) Piperazine	N - (2 - Hydroxyethyl) Piperazine	103-76-4	Active Pharmaceutical Intermediates (Fluphenazine - antipsychotic agent) Polyurethane catalyst. Bulk drugs , Veterinary drugs.
Isopropoxyethanol	Isopropoxyethanol	109-59-1	Used in the synthesis of Bisoprolol Fumarate



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PHARMA EXCIPIENTS

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Pharmaceutical Excipients

To meet the specific needs of the pharmaceutical industries, we offer excipients that satisfy all the relevant regulatory requirements. Our excipients are based on Ethoxylates, Speciality Ester Ethoxylates, Castor Oil Derivatives etc. which are used by the Pharmaceutical Industries in their formulations such as, Topical & Oral formulations, Solubilizers, Emulsifiers, Emollients, Cream bases, Tableting aids, Suppository masses.

Product Name	Chemical Name	CAS Number	Appearance @ 25°C	Melting point Deg c	Active content %	Saponification Value mgKOH/g	Hydroxyl Value mgKOH/g	Applications
FATTY ALCOHOL ETHYLENE OXIDE CONDENSATES								
VICORYL CS 20	C16-18 Alcohol 20 EO	68439-49-6	White to creamy Flakes	38.0 - 42.0	Approx 100	1.0 Max	40.0 - 52.5	In pharmaceutical creams, ointments and lotion preparations.
VICORYL E WAX	Cetomacrogol Wax	68439-49-6	White flakes	47.0 - 53.0	Approx 100	1.0 Max	170.0 - 190	Creams and ointment preparations

Product Name	Chemical Name	CAS Number	Appearance @ 25°C	Acid Value (mgKOH/g)	Hydroxyl Value mgKOH/g	Saponification Value mgKOH/g		Applications
CASTOR OIL / HYDROGENATED CASTOR OIL ETHYLENE OXIDE CONDENSATES								
VISCO 40	Polyoxyl 40 castor oil (USP/NF)	61791-12-6	Yellow liquid to thin paste	1.0 Max	65 - 80	58 - 68		Solubilizer for oily injectables dispersants for nutritive veterinary medicines and therapeutic substances
VISCO RH 40	Hydrogenated castor oil 40 EO	61788-85-0	White to yellowish thin paste	1.0 Max	60 - 75	50 - 60		

Product Name	Chemical Name	CAS Number	Appearance @ 25°C	Hydroxyl Value mgKOH/g	Active content %	Saponification Value mgKOH/g	pH 5 % Aq solution	Applications
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POLYSORBATES

VICAPOL 20	Polysorbate 20	9005-64-5	Yellow to amber liquid	96 - 108	40 - 50	5.0 - 7.0		Solubiliser, Emulsifiers, Adjuvents.
VICAPOL 40	Polysorbate 40	9005-66-7	Yellow to amber liquid	89 - 105	41 - 52	5.0 - 7.0		
VICAPOL 60	Polysorbate 60	9005-67-8	Yellow to amber liquid	81 - 96	45 - 55	5.0 - 7.0		
VICAPOL 80	Polysorbate 80	9005-65-6	Yellow to amber liquid	65 - 80	45 - 55	6.0 - 8.0		
VICAPOL 81	Polysorbate 81	9005-65-7	Yellow to amber liquid	134 - 150	96 - 104	5.0 - 7.0		
VICAPOL 85	Polysorbate 85	9005-70-3	Yellow to amber liquid	39 - 52	80 - 95	6.0 - 8.0		

Product Name	Chemical Name	CAS Number	Appearance @ 25°C	Molecular weight g/mole	Active content %	Viscosity cst@98.9°C	pH 5 % Aq solution	Applications
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POLYETHYLENE GLYCOL

VICAPEG 200	Polyethylene Glycol 200	25322-68-3	Liquid	190 - 210	Approx 100	3.90 - 4.80	4.0 - 7.5	As a solvent , Dispersing Agent, Ointment and suppository bases, Tablet excipients
VICAPEG 300	Polyethylene Glycol 300	25322-68-3	Liquid	285 - 315	Approx 100	5.40 - 6.40	4.0 - 7.5	
VICAPEG 400	Polyethylene Glycol 400	25322-68-3	Liquid	380 - 420	Approx 100	6.90 - 7.20	4.0 - 7.5	
VICAPEG 600	Polyethylene Glycol 600	25322-68-3	Liquid	570 - 630	Approx 100	9.90 - 11.20	4.0 - 7.5	
VICAPEG 1000	Polyethylene Glycol 1000	25322-68-3	Semi solid	900 - 1100	Approx 100	16.0 - 19.0	4.0 - 7.5	
VICAPEG 1500	Polyethylene Glycol 1500	25322-68-3	Flakes	1350-1650	Approx 100	25.0 - 32.0	4.0 - 7.5	
VICAPEG 4000	Polyethylene Glycol 4000	25322-68-3	Flakes	3350-4500	Approx 100	76.0 - 110.0	4.0 - 7.5	
VICAPEG 6000	Polyethylene Glycol 6000	25322-68-3	Flakes	5250-6750	Approx 100	250.0 - 390.0	4.0 - 7.5	
VICAPEG 8000	Polyethylene Glycol 8000	25322-68-3	Flakes	7000- 9000	Approx 100	470.0 - 900.0	4.0 - 7.5	
VICAPEG 10000	Polyethylene Glycol 10000	25322-68-3	Flakes	9000-11000	Approx 100	470.0 - 970.0	4.0 - 7.5	



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Third Generation Polycarboxylate Ether (PCE) Superplasticizer

Viswaat's latest contribution to the ever changing needs and requirements of the construction industry is the new generation of POLYCARBOXYLATE ETHER (PCE) superplasticizers. Polycarboxylate Ether, also known as high-performance water reducer & slump retainer based on polycarboxylic acid, is a third generation chemical polymer used in concrete applications. It is possible to obtain high quality concrete mix with good strength development and extended workability without delayed setting characteristics. These additives show extremely high water reduction depending on use in concrete with improved workability and improved strength. The PCE developed by us show good workability in concrete even at low water cement ratios. Viswaat's PCE additives are based on genuine in house technology and meet international standard and quality as far as performance is concerned



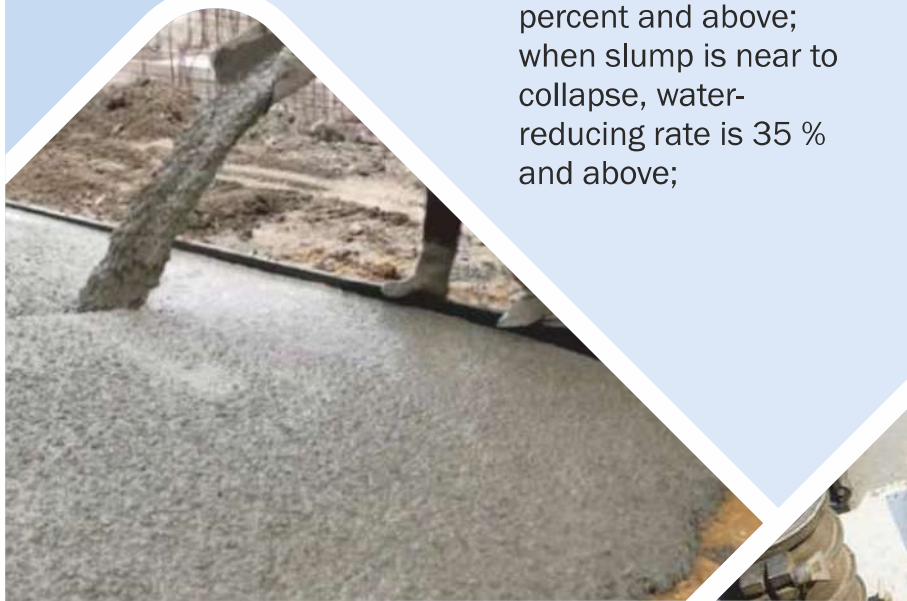
WATER REDUCERS (WR)

- ▶ The excellent dispersion of PCE increases the water-reducing capacity and decreases cement content.
- ▶ The high flow of concrete by PCE enables manufacture of high-flow self-leveling concrete.
- ▶ It also provides excellent work-ability and maintain performance without delaying hardening, helping to transport high-performance concrete within required time limits.
- ▶ Ultimately, PCE dramatically improves the compressive strength of concrete.

Product	pH (20°C)	% Solids
Visflow VW 200 Series	5.0 - 6.0	Approx. 50.0
Visflow VW 400 Series	3.0 - 4.0	Approx. 55.0

FEATURES OF WR PCE

- ▶ High early strength : Our product can elevate the early strength as well 28 Days strength, especially applicable to high strength concrete.
- ▶ Excellent durability : Our product could effectively reduce water-cement ratio, shrinkage. also can elevate durability.
- ▶ High water-reducing rate : When slump is around 80 mm, water-reducing rate is 25% percent and above; when slump is near to collapse, water-reducing rate is 35 % and above;



SLUMP RETAINERS (SR)

- ▶ Visflow VS 300 series is a slump keeping polycarboxylate superplasticizer, designed for High Slump Retention, at a very low dosage.
- ▶ It enables the formulator to achieve an excellent control of the fluidity over the time.
- ▶ It is a new generation of high-performance aqueous dispersant designed for to be used in concrete applications. Benefits include productivity, lower costs and improved concrete properties. Due to a specifically tailored constitution of the active material, this polymer shows formerly unknown adsorption characteristics to cement.
- ▶ The formerly unrivaled combination of early strength, slump retention and final strength development allows to be considered for precast application.
- ▶ It is formulated to comply with ASTM C494 for type F admixtures.

Product	pH (20°C)	% Solids
Visflow VS 300 Series	5.0 - 6.0	Approx. 50.0

FEATURES OF SR PCE

- ▶ Prolong slump retention. High workability without bleeding or segregation.
- ▶ Ease to formulate targeted slump while reducing the water content.
- ▶ High impermeability, Strength and Improved durability. Excellent concrete quality.
- ▶ Eliminate energy required for placing, consolidation and curing.
- ▶ High water reduction ability (above 20%), Effectiveness at low dosage.
- ▶ Robustness with supplementary cementitious materials, Easy to formulate Low sticky behavior



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HYBRID (WR + SR)

- ▶ Visflow VH series is a new generation Poly-carboxylate ether based multi range plasticizer based on expertise hybrid polymers technology. It is a water reducing as well slump retarding polymer (ASTM C 494 –Type D).
- ▶ It gives excellent rheology and self-compacting concrete
- ▶ Due to steric-hindrance effect imparted by ether-function hydrophilic grafted chain attached to polymer, superior initial workability and later on retention is achievable by use of Visflow VH.
- ▶ It is compatible with all PCE products as well is also compatible with lingo base plasticizer. Do not use blending with SNF base plasticizer.

Product	pH (20°C)	% Solids
Visflow VH Series	5.0 - 6.0	Approx. 50.0

FEATURES OF HYBRID POLYCARBOXYLATE ETHER

- ▶ Single admixture for wide range of concrete. Concrete using moderate to high supplementary cementitious material (SCM)
- ▶ Improvement in concrete strength through water reduction /slump retention. Increase compressive and flexural strength of concrete at all ages.
- ▶ Produces cohesive and non-segregating concrete mixtures. More than 30% water reduction in high performance concrete.
- ▶ It can be used in great range of concrete with desired fluidity & workability retention. It allows optimization of dosage of cement in order to obtain a specific class of resistance.
- ▶ Depending on dosage, a relative increase of mechanical strength is observed at 24 hours & is a great advantage over old generation available polymer in the market.
- ▶ For any mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water (up to 25%) can be achieved, to produce concrete of high compressive strength.



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