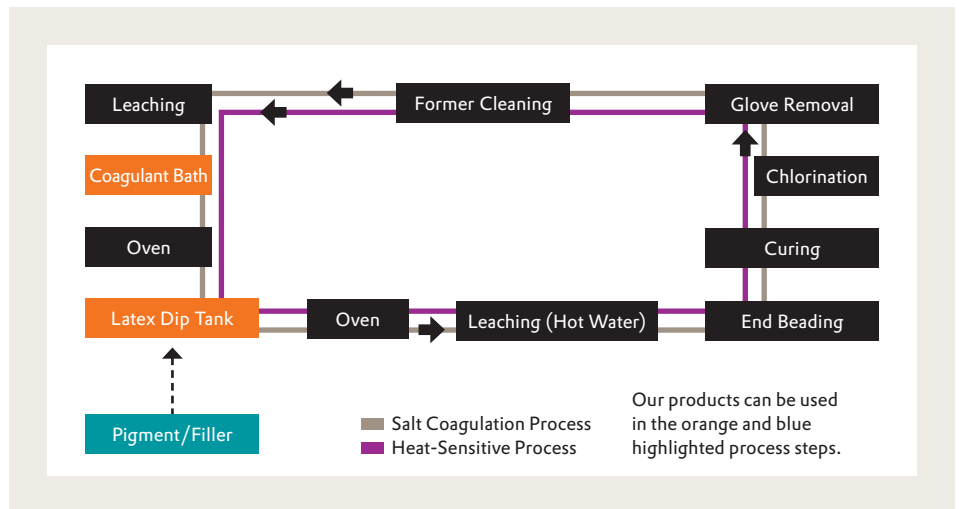


Solutions for Latex Dipping Processes



SOLUTIONS FOR LATEX DIPPING PROCESSES

Evonik offers extensive portfolio solutions in latex dipping processes. Both salt coagulation and thermo-coagulation are supported by our special process additives. Our customers in the latex dipping market benefit from our expansive product range, specialty designed formulations and application expertise and our global services.



Process	Salt coagulation Process					Heat-sensitive Process
	Pinhole ¹	Thin Spot ²	Foam in Latex Tank ⁴	Web on Glove ⁵	Poor Compound Stability ⁶	High Compound Viscosity ⁶
PRODUCT NAME	WETTING AGENT	DEWEBBING AID	DISPERSANT	DISPERSANT	DISPERSANT	COAGULANT ⁷
SURFYNOL® LSF	●	●				
SURFYNOL® 485	●	●				
SURFYNOL® 465 ³	○	○				
SURFYNOL® DF-37			●	●		
TEGO® Antifoam 2290			●	●		
TEGOMER® DA 640					●	●
TEGOMER® DA 850					●	●
TEGO® Coagulant 4720						●
TEGO® Coagulant 4910						○

● highly recommended ○ suitable

¹ Foam on former from coagulant tank; poor wetting or coagulant on former especially at higher line speeds

² Poor wetting of coagulant onto former, especially at finger joints and cuffs

³ Bath °C < 75°C

⁴ Foam coming from stabilizers in latex

⁵ "Foam lamella" forms between fingers of glove on mold

⁶ Inadequate dispersion or stabilization of solids in latex compound

⁷ Suitable for higher endapplication like medical gloves and textile supported gloves

Product Properties		Physical Data					Safety			Food Compliance																										
Product Name	Chemical Base	Ionic Character	Active Content [%]	TSC [%]	Si-Free	Dosage Range [%]	pH -Value	Surface Tension [mN/m]		Cloud Point 0.1% in H ₂ O [°C]	Cloud Point 0.1% in Ca(NO ₃) ₂ [°C]	VOC (DIN ISO 11890/2), (ASTM D6886-14) [%]	ROHS	REACH	Prop 65	EC 10/2011	BFR XIV Polymerdispersion	BFR XV (Silicones)	BFR XXVI	175.105	175.125	175.300	175.320	176.170	176.180	176.200	176.210	177.1210	177.1520	177.2600	178.3400	178.3725	GB 9685	Swiss Ordinance		Inventory *
								Dynamic [mN/m] (Frequency 10Hz)	Static [mN/m] (Frequency 0.1Hz)																									List A	List B	
WETTING																																				
SURFYNOL® TG	Blend of Gemini Surfactant & NPE	Nonionic	83	100	●	0.05 – 2	n.d.	30	37	76	53	n.d.	yes	yes	no	no	no			yes		●											●	●	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
SURFYNOL® LSF	Blend of Gemini Surfactant & Alcohol Ethoxylate	Nonionic	42	82	●	0.05 – 06	n.d.	38	62	100	100	n.d.	yes	yes	no	no																			1, 2, 3, 4, 5, 6, 7, 8	
SURFYNOL® 465	Ethoxylated Gemini Surfactant	–	100	100	●	0.1 – 2	7	34	42	96	90	-0	yes	yes	yes	no	no			●		●		●	●							●	●	1, 2, 3, 4, 5, 6, 7, 8, 9, 10		
SURFYNOL® 485	Ethoxylated Gemini Surfactant	–	100	100	●	0.1 – 2	7	47	49	100	100	-0	yes	yes	yes	no																			1, 2, 3, 4, 6, 7, 8, 9, 10	
CARBOWET® GA-100	Blend of Gemini Surfactant & Alcohol Ethoxylate	Nonionic	85	100	●	0.2 – 2	5.5	29	38	73	62.5	-0	yes	yes	yes	no	●	yes														●	●	1, 2, 3, 4, 6, 8, 9		
DEWEBBING & DEFOAMING																																				
SURFYNOL® DF-37	Blend of Gemini Surfactants	Nonionic	100	100	●	0.1 – 0.5	n.d.	–	–	–	–	-0	yes	yes	yes	no																			1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
TEGO® Antifoam 2290	Paraffinic Oil	–	100	100	●	0.05 – 0.2	5 – 8	–	–	–	–	>0.02	yes	yes	yes	no	yes			●		●		●	●					●		no	●	1, 2, 3, 4, 5, 6, 7, 8, 9, 10		
TEGO® Antifoam 2-89	Polyether Siloxane	–	20	20	–	0.05 – 0.2	6 – 9	–	–	–	–	0.2	yes	yes	yes	no	●	●	●		●		●	●							no	●	●	1, 2, 3, 4, 5, 7, 8, 9		
TEGO® Antifoam 730	Silicone Oil/OMS	–	30	30	–	0.05 – 0.1	5 – 7	–	–	–	–	n.d.	yes	yes	no	no	no														no		●	1, 2, 3, 4, 5, 6, 7, 8, 9		
TEGO® Antifoam 3045	Vegetable Oil	–	100	100	–	0.2 – 1	5 – 7	–	–	–	–	-0	yes	yes	yes	yes	yes			yes	●	●		●	●	●	●				no	yes		1, 2, 3, 4, 5, 7, 8		
DISPERSING																																				
TEGOMER® DA 640	Polyetherphosphat	Anionic	30	30	●	0.2 – 2	8 – 9	50	67	n.d.	n.d.	0.1	yes	yes	yes	no	no															no	●	1, 2, 3, 5, 6, 7, 9, 10		
TEGOMER® DA 850	Polymeric nature	Nonionic	40	40	–	0.2 – 2	6 – 7.5	n.d.	n.d.	n.d.	n.d.	0.5	yes	yes	no	no	no			●		●		●	●						no		●	1, 3, 5, 6, 7, 9		
TEGOMER® DA 646	Modified Polyether	Nonionic	100	100	●	0.2 – 2	n.d.	40	60	20	20	n.d.	yes	yes	yes	no	no														no	no	no	1, 2, 3, 4, 5, 6, 7, 8, 9, 10		
THERMO COAGULATION																																				
TEGO® Coagulant 4720	Polymeric	Nonionic	100	100	–	0.1 – 1.0	8 – 11	n.d.	n.d.	n.d.	n.d.	n.d.	yes	yes	yes	no		no													no	no	no	1		
TEGO® Coagulant 4910	Polyether Siloxane	Nonionic	100	100	–	0.1 – 1.0	5 – 8	n.d.	n.d.	n.d.	n.d.	n.d.	yes	yes	yes	●	●			yes											●	●		1, 2, 3, 4, 5, 6, 7, 8, 9, 10		

1 EINECS (Europe)
2 TSCA (USA)
3 DSL (Canada)
4 ENCS (Japan)
5 AICS (Australia)

6 ECL (South Korea)
7 PICCS (Philippines)
8 IECSC (China)
9 TCSI (Taiwan)
10 NZloc (New Zealand)

no not compliant
yes compliant
n.d. not determined
● compliant with some restrictions, please contact us

* is subject to constant updates, please contact us for further information

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