
RELEASE SOLUTIONS FOR MOLDING CHALLENGES

SILICONE-BASED FLUIDS,
EMULSIONS, RESINS, AND
COPOLYMERS

A stack of colorful, interlocking mold parts in shades of red, yellow, orange, and blue. The parts have a textured, wavy surface.

IT'S NEVER BEEN SO EASY TO LET GO

We know how crucial release agents are to the efficient, high-quality release of molded parts.

They provide the critical barrier between a mold and other materials, promoting the **easy removal** of the cured part from the mold. But if the separation doesn't go smoothly, it's not only frustrating, but can be a profit killer for your customers.

Our silicone-based materials provide excellent release for **thermoplastics, thermoset, rubber, and composites**, along with the added benefits of heat stability and good wetting and spreading. Low-VOC and water-based formulations are available.



MOLD RELEASE PRODUCT PORTFOLIO

Product Name & Functionality	Active Content %	Product Description	Active Ingredient	Description/Application	Application			Technology Feature						Processing Feature				
					All Purpose Release	Rubber Release	Thermoset Release	Film Former	Painting Or Bonding	Multi Release / Durability	Curable	Heat Resistance	Gloss / Shine Enhancement	Low Buildup	Easy Cleaning	Water Dilutable	Lower Temp. Drying	Low Cyclics
Emulsions																		
Indusil™ REL 2268	35	PDMS nonionic emulsion	Standard PDMS	Food contact applications complain.	•	•	•						•			•		
Indusil™ REL 330 EPHV LT	35	EP anionic emulsion	Silanol, high viscosity	Lubricity, easy release, high temperature stability.	•	•	•	•				•	•			•		•
Indusil™ 2112	35	EP cationic emulsion	Branched silanol	Bladder and tire release. Freeze thaw stable.	•	•	•	•			•	•	•			•		
Indusil™ REL 2059	35	EP cationic emulsion	Branched amino-silanol	Film forming, semi-permanent.	•	•	•	•			•	•	•			•		
Indusil™ RNX	33	Nonionic microemulsion	Pendant amido carboxy siloxane	Reactive microemulsion.	•		•	•			•					•		
Indusil™ 2670	60	Silanol nonionic emulsion	Silanol Gum	Excellent release on plastic and rubber. Scratch prevention.	•	•	•						•			•		
TSM 6362	57	Nonionic, alkyl-aryl fluid emulsion	Emulsion of XF42-334	Release agent for molded parts to be painted or metalized.	•	•	•		•	•					•	•		
TP 3207	50	H-functional PDMS emulsion, nonionic	Hydrogen siloxane	Reactive Si-H emulsion.	•			•			•					•		
Indusil™ AX-E	48	Alkyl-amino PDMS emulsion	Alkyl-amino PDMS	High gloss, low amine content, high wetting on substrates.	•		•	•	•	•			•			•		
Resins																		
Indusil™ SQX1	100	MQ resin	MQ resin	Powder, PU release. Multifunctional.	•		•	•			•				•	•		•
Indusil™ SQX5	60	MQ resin in toluene	MQ resin	PU release. Multifunctional. Quick drying.	•		•	•			•				•	•		•
Indusil™ SQX9	45	MQ in D5	MQ resin	Multiple release for thermosets, heat stable noncarbonizing film, low buildup.	•		•	•			•				•	•		•
Indusil™ SQX10	35	MQ in 50 cSt PDMS	MQ resin	High MW, reactive, film-forming.	•		•	•			•				•	•		•
Amino PDMS																		
Indusil™ REL Plus	100	Amino PDMS	High visc. amino PDMS	Low amine content, high affinity to many substrates.	•		•				•			•	•			
Indusil™ REL FL	100	Amino PDMS	Low visc. amino PDMS	High gloss, low amine content, high wetting on substrates.	•		•				•			•	•			
SF 1706	100	Reactive amino PDMS	Low MW branched aminosilanol	Reactive, semi-permanent release. High gloss, high amine content. PU release.	•		•	•			•	•						
Alkyl- / Alkyl-Aryl-PDMS																		
XF 42-334	100	Alkyl aryl fluid (short chain alkyl)	Alkyl aryl fluid	Lubrication, high temp. resistant, re-paintable, organic compatible.	•	•	•		•	•					•			
SF 1642	100	Silicone wax	Alkyl PDMS fluid	Compatible with both organics and silicone.	•		•		•									
GPW 2233	100	Alkyl PDMS fluid (long chain alkyl)	Alkyl PDMS fluid	High lubrication, temp. resistant, re-paintable, organic compatible.	•	•	•	•	•	•					•			
Silicone Surfactants																		
Silwet™ L-7280	100	Trisiloxane	Trisiloxane	Wetting, levelling.					•						•	•	•	•
Silwet™ L-7608	100	Trisiloxane	Trisiloxane	Wetting, levelling, reactive.					•						•	•	•	•
Silwet™ L-77	100	Trisiloxane, end-capped	Trisiloxane, end-capped	Wetting, leveling.					•						•	•	•	•
Silwet™ L-7604 LT	100	Silicone polyether	Silicone polyether	Antifog, meet FDA 21 CFR 177.1520.											•	•	•	•
Silwet™ L-7657	100	Silicone polyether	Silicone polyether	Antifog, meet FDA 21 CFR 177.1520.											•	•	•	•
Indusil™ ESS 110	100	Alkyl-trisiloxane	Alkyl-trisiloxane	Wetting, levelling, special solvent properties, no cyclics.					•						•	•		•
Indusil™ ESS 010	100	Alkyl-trisiloxane	Alkyl-trisiloxane	Wetting, levelling, special solvent properties, no cyclics.					•						•	•		•
Resin Particles																		
Indusil™ 830 TS	100	T-resin	Silicone micropearls	Surface modifier, handfeel, reduce friction.	•				•									
Silane																		
Silquest™ A-137	100	Alkyl-triethoxysilane	Alkyl-triethoxysilane	Curable, no impact on painting/bonding.	•	•	•				•	•	•		•			•
Silquest™ A-162	100	Methyl-alkoxysilane	Methyl-triethoxysilane	Adesion promoter between organic and inorganic surfaces.	•	•	•				•	•	•		•			•
Special Silicone																		
YF-33-1000	100	Heat stabilized PDMS	PDMS-1000 cSt	High heat resistance.	•	•	•						•	•				

TAKE THE PAIN OUT OF PART AND MOLD SEPARATION

Our silicone-based emulsions, resins, and copolymers help develop release agents that simplify part and mold separation.



KEY FEATURES & TYPICAL BENEFITS

- Complete coverage
- Minimal reapplication
- Easy release
- Good wetting and spreading
- Nominal residue and minimal buildup on molds
- Excellent resistance to heat and chemicals
- Low surface tension
- Low-VOC and water-based formulations are available

POTENTIAL APPLICATIONS

- Composite
- Epoxy resin
- Polyester
- Polyurethane
- Rubber

Help Your Customers Escape the Torment of a Sticky Cast or Mold

Developing high performance mold release agents that provide consistent, easy release for even the most intricate molded parts is made easier with the addition of our silicone-based emulsions, resins, and copolymers.

Break Free with Advanced Technology

We can help you find the right balance between **coverage**, **durability**, and **performance** so that you can create release agents that streamline molding operations. And, with our extensive knowledge of silicones, we're developing cleaner, safer-to-handle products that help you meet regulatory requirements.



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