

SPECIALTY SILICONE COMPONENTS LINE



THE CHEMISTRY
OF CARE

PRODUCT GUIDE



FREEDOM TO FORMULATE

NuSil's specialty polymers and finished systems are high purity components specifically made for formulators to create unique silicone compounds.

Functional Polymers and Curing Components

NuSil offers a variety of functional silicone polymers for formulating addition cure silicones and block co-polymer components.

Finished Systems

Our Finished Systems help decrease time to market by providing a complete two-part kit with little formulating required.

Additional Products

If you don't find what you are looking for, we have many additional products in our formulation library and can customize infinitely more based on your unique requirements. For the complete range of products, please visit:

www.nusil.com/specialtysiliconecomponents



SPECIALTY FUNCTIONAL SILOXANE POLYMERS

HYDRIDE FUNCTIONAL SILOXANE POLYMERS

PRODUCT NUMBER	REFRACTIVE INDEX @ 589nm	VISCOSITY	mmol H/g	PRODUCT DESCRIPTIONS
XL-110	1.40	4 cSt	7.0	Pendant Hydride Functional, Crosslinker.
XL-112	1.40	40 cSt	6.5	Pendant Hydride Functional, Crosslinker.
XL-115	1.40	50 cSt	4.2	Pendant Hydride Functional, Crosslinker.
XL-103	1.40	125 cSt	0.15	Pendant Hydride Functional, Crosslinker.
XL-7505	1.40	500 cP	0.16	Terminal Hydride Functional Chain Extender.

VINYL FUNCTIONAL SILOXANE POLYMERS

PRODUCT NUMBER	REFRACTIVE INDEX @ 589nm	VISCOSITY	mmol Vi/g	PRODUCT DESCRIPTIONS
DIMETHYL POLYMER				
PLY-7500 (Series)	1.40	500 - 50,000 cP	0.03 - 0.15	Vinyl Terminated Dimethyl Polymer.
PLY-7511	1.41	1,000 cSt	1.10	Vinyl Terminated Pendant Methylvinyl, Dimethyl, Copolymer.
PHENYL POLYMER				
PLY-7560 (Series)	1.43	500 - 50,000 cP	0.06 - 0.22	Vinyl Terminated Phenyl Copolymer.
PLY-7666	1.46	1,525 cSt	0.16	Vinyl Terminated Phenyl Copolymer.
PLY-7665	1.52	560 cSt	0.80	Vinyl Terminated Phenyl Copolymer.
CF-4721	1.52	125 cP	4.70	MTD Silicone Resin.
FLUORO POLYMER				
PLY-7580 (Series)	1.38	1,000 - 100,000 cP	0.06 - 0.47	Vinyl Terminated 100mol% Fluoro.

CURING COMPONENTS

PLATINUM CATALYST FOR ADDITION CURE REACTIONS

PRODUCT NUMBER	REFRACTIVE INDEX @ 589nm	% Pt	APPEARANCE	PRODUCT DESCRIPTIONS
CAT-7717	1.41	4.1	CLEAR TO LIGHT AMBER	Ashby Catalyst, tetravinyltetramethylcyclotetrasiloxane complex.
CAT-50	1.41	2.5	CLEAR TO LIGHT AMBER	Karsted Catalyst, Platinum-divinyltetramethylsiloxane complex.
CAT-53	1.52	2.0	CLEAR TO LIGHT AMBER	Karsted Catalyst, Platinum-divinyltetramethylsiloxane complex.

PEROXIDE CATALYST

PRODUCT NUMBER	VISCOSITY	APPEARANCE	PRODUCT DESCRIPTIONS
CAT-101	N/A	CLEAR	Lupersol - Vinyl specific peroxide catalyst.
CAT-102	PASTE	OFF-WHITE	Perkadox PD50s-Non-Vinyl Specific Peroxide Catalyst.

INHIBITORS

PRODUCT NUMBER	MINIMUM CURE TEMPERATURE	PRODUCT DESCRIPTIONS
XL-119	AMBIENT	Competitive inhibitor.
XL-128	> 70° C	Methyl Butynol (MeBuOH). Fugitive inhibitor for controlling work time of addition cure silicones.
CAT-41	> 120° C	Ethynyl Cyclohexanol (ETCH). Fugitive inhibitor for controlling work time of addition cure silicones.

NON-FUNCTIONAL SILOXANE POLYMERS

NON-FUNCTIONAL SILOXANE POLYMERS

PRODUCT NUMBER	REFRACTIVE INDEX @ 589nm	VISCOSITY cP (mPa·sec)	PRODUCT DESCRIPTIONS
FS-3600 (Series)	1.38	1,000 - 20,000	Trimethyl Terminated 100mol% fluoro. Various mol% Fluoro available.
S-7200 (Series)	1.41	350 - 12,500	Trimethyl Terminated Dimethylsiloxane.
CV-7300 (Series)	1.41	1,000 - 100,000	Trimethyl Terminated Low Outgassing Dimethylsiloxane.
S-7400 (Series)	1.43	400 - 1,000,000	Trimethyl Terminated Diphenyl Dimethyl Copolymer.

FINISHED SYSTEMS

CLEAR ELASTOMERS (1.41 RI)

PRODUCT NUMBER	VISCOSITY cP (mPa·sec)	DUROMETER TYPE A	TENSILE psi (mPa)	ELONGATION %	WORK TIME	PRODUCT DESCRIPTIONS
CF19-2615	1,050	30	120 (0.9)	94	4 h	Clear. Self-leveling.
EPM-2420	2,600	30	425 (2.9)	152	2 h	Low volatility. Self-leveling binder for a variety or different types of fillers. Compatible with Platinum catalyzed systems.
EPM-2421	3,225	50	850 (5.9)	102	3 h	Low volatility. Self-leveling binder for a variety or different types of fillers. Compatible with Platinum catalyzed systems.

GELS

PRODUCT NUMBER	REFRACTIVE INDEX @ 589nm	VISCOSITY cP (mPa·sec)	PENETRATION (mm)* DUROMETER	WORK TIME	PRODUCT DESCRIPTIONS
DIMETHYL GELS					
GEL-8150	1.40	500	5 mm	4 h	Soft.
GEL8-8150	1.40	500	4 mm	1.5 h	Soft. Able to RTV.
GEL-8100	1.40	525	10 mm	> 24 h	Soft. Flows when cured.
GEL-8136	1.40	450	14 mm	N/A	High surface tack.
GEL-8170	1.40	600	9 mm	N/A	Soft. Medium tack.
GEL1-8155	1.40	14,500	0.4 mm	N/A	Firm. Medium tack.
EPM-2480	1.40	2,500	4 mm	> 30 h	Low volatility. Soft. High tack.
PHENYL GELS					
GEL-8250	1.43	650	5 mm	2 h	Recommended for extreme operating temperatures.
LS-3246	1.46	1,000	10 (00)	8 h	Low permeability binders.
LS-3252	1.52	425	65 (000)	N/A	Low permeability binders.
LS-3354	1.54	5,000	65 (000)	1.5 h	Low permeability binders.

All materials are Platinum cure

*See Data Sheets for test parameter details

h = hours

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