

Technical Information

Crosslinker 100/200 series

Crosslinker for vinylfunctional silicone polymers

The crosslinkers of the Crosslinker 100 and 200 series are polydimethylsiloxanes comprising SiH groups in the polymer chain. The crosslinkers of the Crosslinker 200 series additionally have terminal SiH groups. Both crosslinker types are used in polyaddition silicones.

Both series are available with different viscosity levels and SiH contents. Other SiH contents and viscosity levels can be delivered upon request.

Technical data (no specification)

Product name	SiH content [mmol/g]	Viscosity at 25 °C [Pas]	Refractive index n_D^{20}
Crosslinker 100	7.8	45	1.4020
Crosslinker 101	4.3	45	1.4025
Crosslinker 110	3.8	100	1.4030
Crosslinker 120	1.1	500	1.4045
Crosslinker 122	1.8	200	1.4045
Crosslinker 180	1.9	50	1.4035
Crosslinker 190	16	20	1.3975
Crosslinker 200	3.2	50	1.4030
Crosslinker 210	4.2	40	1.4025

Technical data (no specification)

Property	Unit	
Appearance		clear, colourless liquid
Density (20 °C)	[g/cm ³]	approx. 1

Application

When working with two-component silicone formulations, it must be ensured that Pt-catalyst (e. g. Catalyst 500 series) and SiH crosslinkers are kept strictly separated.

In general, the composition must be selected so that the total formulation contains approximately a double molar excess of SiH groups as compared with vinyl groups.

Further information about the formulation structure is available upon request.

Packaging and Storage

Packaging	190 kg drum, 950 kg IBC PE
Shelf life	24 months in originally sealed containers
Storage	Dry, up to 30 °C (86 °F) in sealed containers, do not permanently expose to intensive sunlight.

Safety and Handling

The rules and regulations for the handling and use of chemicals have to be observed. Please refer to the Material Safety Data Sheets for further details.

Attention must in particular be paid to the fact that silicones containing SiH may generate hazardous hydrogen gas in connection with certain pollutants. For further information, please consult e. g. www.silicones-safety.com.

Registration status

The ingredients of all above mentioned Crosslinkers are listed in the following chemical inventories:

EINECS/ELINCS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, IECSC, New Zealand, TCSI

Further information is available on request.

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