## **TECHNICAL DATA SHEET**



## HANSA SFA 12302 Hydride modified siloxanes

Description	Property	Test Method	Value
The chain extenders of the HANSA SFA 12 series are polydimethylsiloxanes with Si-H groups at the end of the chain. The materials are typically used in platinum catalyzed crosslinking reactions with vinyl siloxanes in addition curing elastomers. They can also be used in the synthesis of organo- modified silicone products for a large group of applications.	Product Color Hydride content % Molecular weight g/mol Non-Volatile Content		Transparent 0.06 % 2950 g/mol > 99
Key Features         • Chain extender         • end-modification         • Good UV stability         • No shrinkage during crosslinking	(%) Shelf Life Ultralow cyclic content <b>Uncured Product</b>		12 mths Yes
Key Applications	Cure Type		Additon cure
<ul> <li>Intermediate for addition curing formulations</li> <li>Use and Cure Information</li> <li>The preferred catalyst for the Hydrosilylation reaction is platinum catalyst from the ALPA-KAT series. It is advised to determine the ratio of hydride to vinyl functional siloxane and the desired reaction component beforehand. Especially when using filled</li> </ul>	Cured Product Density	BS ISO 2781	0.97 g/cm3
	Solubility Solubility - Water		insoluble

When handling Si-H containing materials make sure to use equipment with dedicated charging and vents systems to prevent contamination with other materials that promote side reactions and the generation of hydrogen gas. For more information see the MSDS.

Reactions of Si-H materials are usually exothermic and depending on the concentration of the Si-H material in the system. When producing organo-modified silicone products it is important to monitor the temperature early in the reaction step to avoid a potentially dangerous situation.

When formulating addition curing elastomers make sure that the platinum catalyst is not in the same component as the Si-H fluid.

All materials of the HANSA SFA 1 series are stable at ambient temperature under the exclusion of water.

## Health & Safety

Si-H modified silicone compounds are reactive under certain conditions and care is required when handling these materials. They may evolve hydrogen on contact or when mixed with strong acids or bases; amines; primary or secondary alcohols and water in the presence of acids, bases, or catalytic metals; some catalytic and reactive metals; or metal salt forming compounds. When contacting these materials, Si-H compounds can rapidly evolve hydrogen gas and form flammable and explosive mixtures in air. Si-H products used in platinum-catalyzed addition-curing systems, such as Si-H elastomers, can also release flammable and explosive hydrogen gas if these products are combined with each other or with incompatible materials.

CHTs Chainextender are available in a variety packaging including bulk containers. Please contact our customer service department for more information.

Revision Date30 Apr 2021Revision No3Download Date09 May 2024

system, a hydride excess is needed.

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