TECHNICAL DATA SHEET



Transparent

11000 g/mol

0.24 %

HANSA SFA 11230 Hydride modified siloxanes

Product

Hydride content %

Molecular weight g/mol

Color

Description **Test Method Property** Value

The crosslinkers of the HANSA SFA 11 series are polydimethylsiloxanes with Si-H groups on the chain, while the HANSA SFA 13 series additionally have terminal Si-H groups.

Both 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-

component beforehand. Especially when using filled system, a

Non-Volatile Content > 99 (%) modified silicone products for a large group of applications. Shelf Life 12 mths Ultralow cyclic content Yes **Key Features** Viscosity Brookfield 200 cP Crosslinker

Good UV stability **Uncured Product**

No shrinkage during crosslinking Cure Type **Additon cure Key Applications**

Cured Product · Intermediate for addition curing formulations BS ISO 2781 Density 0.97 g/cm3 **Use and Cure Information**

The preferred catalyst for the Hydrosilylation reaction is platinum Solubility catalyst from the ALPA-KAT series. It is advised to determine the Solubility - Water insoluble ratio of hydride functional siloxane and the desired reaction

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

side-modification

hydride excess is needed.

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.

Revision Date 30 Apr 2021

Revision No

Download Date 26 Apr 2024