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TECHNICAL DATA SHEET

**Silmer® HQ RESINS**  
Hydride Functional Resin

**DESCRIPTION**

**Silmer HQ RESINS** are the kinetic reaction products of silicates with trimethyl siloxy groups and hydride dimethyl siloxy groups. This reaction generates a silicon-based, cross-linked network having silicon hydride groups on the surface.

These types of silicones are often referred to as "MQ resins" because they are built of a network of tetrafunctional silicon atoms (Q group – silicon surrounded by four oxygen groups) end capped with mono functional silicon (M group – silicon with one oxygen group and three alkyls).

**TYPICAL PROPERTIES**

	<b>Silmer HQ 20</b>	<b>Silmer HQ 203</b>
<b>Appearance</b>	Clear liquid	Clear liquid
<b>Composition (M/Q)</b>	2/1	1.2/1
<b>Viscosity, cPs</b>	16	170
<b>Hydride Content, %</b>	0.81	0.12
<b>Active Content, %</b>	100	100
<b>Water Solubility, 1%</b>	Insoluble	Insoluble

**USES AND APPLICATION**

**Silmer HQ RESINS** can be formulated into two component addition cured silicone formulations based on **Silmer VIN** and **Silmer H** products to provide additional mechanical properties such as tear strength and hardness.

**SAFETY**

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

THIS MATERIAL IS NOT FOR MEDICAL OR DRUG USE.

**STORAGE AND SHELF LIFE**

When stored in the original, unopened containers between 10 and 40°C, **Silmer HQ RESINS** have a shelf life of 36 months from date of manufacture.

**PACKAGING**

**Silmer HQ RESINS** are available in 20kg and 200kg containers.

**LEGAL DISCLAIMER**

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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