

LOCTITE® SI 5730™

May 2023

PRODUCT DESCRIPTION

LOCTITE® SI 5730™ provides the following product characteristics:

Technology	Silicone
Chemical Type	Polyaddition Silicone
Appearance, Resin (Component A)	Transparent liquid
Appearance, Hardener (Component B)	Transparent liquid
Appearance (Mixture)	Transparent liquid
Components	Two components - requires mixing
Mix Ratio by volume: Part A: Part B	1 : 1
Viscosity	Low
Cure	Room temperature cure
Application	Potting

LOCTITE® SI 5730™ is a two-part, room temperature polyaddition curing silicone. LOCTITE® SI 5730™ is developed for transparent potting. The low viscosity helps to limit bubbles generation. After curing the product is transparent. LOCTITE® SI 5730™ has been tested by an external institute and meets the requirements of HB according to UL94 at 13 mm thickness.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties:

Specific Gravity @ 25 °C, g/cc	1.0
Viscosity (STM 740), mPa·s	1,100
Flash Point - See SDS	

Part B Properties:

Specific Gravity @ 25 °C, g/cc	1.0
Viscosity (STM 740), mPa·s	1,000
Flash Point - See SDS	

TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 15 min @ 25 °C / 50% RH

Physical Properties:

Penetration (ISO 2137:1985), mm/10	100
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Optical Properties:

Transmission rate (at 400 nm), %	98
Transmission rate (at 500 nm), %	100

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Directions for use

1. For best performance surfaces for bonding should be clean, dry and free of grease. For high strength structural bonds, special surface treatments can increase the bond strength and durability.
2. Keep assembled parts from moving during cure. The bond should be allowed to develop full strength before subjecting to any service load.
3. Excess uncured adhesive can be wiped away with organic solvent (e.g. Acetone).
4. Certain materials can inhibit the curing of LOCTITE® SI 5730™, such as organotin compounds, sulfur-containing materials and amine-containing materials.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

ADDITIONAL INFORMATION

Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 2.0

