

LOCTITE® SI 5075

May 2014

PRODUCT DESCRIPTION

LOCTITE® SI 5075 provides the following product characteristics:

Technology	Silicone wrap
Appearance	Red, black
Components	One component - requires no mixing
Cure	Not applicable
Operating temperature	-54 to 260 °C
Thickness	0.5 mm
Application	Sealing and insulating

LOCTITE® SI 5075 is a self-fusing, silicone rubber wrap that is recommended for reliable, temporary repairs on a variety of substrates. LOCTITE® SI 5075 does not bond to the substrate so it must be used as a wrap due to the self-fusing properties of the tape. Typical applications includes flexible hose repair, pipe repair, tool handle wrap, and electrical insulative wrap.

Typical properties of cured material

Physical properties:

Shore hardness, ISO 868, Durometer A		50
Tensile Strength, ISO 527-3	N/mm ² (psi)	4.8 (700)
Tear strength, ISO 34-1	N/mm ² (psi)	0.6 (85)
Elongation, ISO 527-3, %		300
Water absorption, ISO 62, %: By weight		≤3

Electrical properties:

Surface Resistivity, IEC 60093, Ω	74.3×10 ¹⁵
Volume resistivity, IEC 60093, Ω·cm	1×10 ¹⁴
Dielectric Constant / Dissipation Factor, IEC 60250: 1 kHz	2.95 / <0.0004
Dielectric breakdown strength, IEC 60243-1, kV/mm	
0.25 to 0.76 mm	15.7
1.02mm	11.8
1.3mm	10.8
1.5mm	9.8
1.7 to 2.0 mm	7.9

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 Material Safety Data Sheet.

Directions for use

1. Separate LOCTITE® SI 5075 from the liner.
2. Peel away enough silicone wrap to complete the repair.
3. Press one end onto the surface and begin to wrap.
4. Stretch the silicone wrap tightly while wrapping over the repair area.
5. Wrap the repair area with a two-thirds overlap for a proper seal.
6. Finish wrapping by overlapping the silicone wrap with a previous layer.

Storage

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

Product specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Data ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

Approval and Certificate

Please contact Henkel representative for related approval or certificate of this product.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\mu\text{m} / 25.4 = \text{mil}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} \times 145 = \text{psi}$

$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$

$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$

$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$

$\text{mPa}\cdot\text{s} = \text{cP}$

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