



LOCTITE® SI 5637

LOCTITE® SI 5637 March 2026

PRODUCT DESCRIPTION

LOCTITE® SI 5637 provides the following product characteristics:

Technology	Silicone
Chemical Type	2K additional cure
Appearance (uncured)	Part A: Red
	Part B: White
	Mixed: Pink
Mixing ratio	1:1 by volume
	1:1 by weight
Curing conditions	80°C x 30 min /25°C x 24h
Application	Electronic assemblies

LOCTITE® SI 5637 is a two part, fast cure, low viscosity, self-leveling silicone for thermal potting applications. It features high thermal conductivity, excellent electrical insulation properties, a convenient mix ratio and can be cured over a wide range of temperatures.

Typical properties of uncured material

Specific gravity, @ 25°C, g/cc	
Part A:	2.79
Part B:	2.75
Mixture:	2.77
Viscosity, @ 25°C, 10/s, mPa.s	
Part A:	3500 - 7000
Part B:	3500 - 7000
Working life, @ 25°C,minutes	>80

Typical properties of cured material

Physical Properties:

Shore 00 hardness	55
Elongation, %	80
Tensile strength, N/mm ²	0.1
Young's modulus, N/mm ²	0.6
CTE, ASTM E831, ppm/K , 50-80°C	126

Thermal properties

Thermal conductivity, ASTM D5470, W/mK	2.4
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Electrical Properties:

Dielectric strength, ASTM D149, kV/mm	>15
Volume resistivity, ASTM D257, Ω·cm	1×10 ¹³

General information

The cure of this silicone product may be inhibited through contact with certain contaminants. Avoid contact with butyl and chlorinated rubbers, amines, sulfur or sulfur containing materials, tin containing compounds, or heavy metal salts.

For safe handling information on this product, consult the Material Safety Data Sheet.

Direction for use

Some filler settling is common during shipping and storage. For this reason, the resins are stirred prior to use. Avoid air introduction during stirring.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling. Storage Condition: 5 to 25°C for 6 months shelf life, in sealed containers with original packaging. Shipping condition: - 20 to 30°C within one week. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel 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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP



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