

TECHNICAL DATA SHEET

My-T-Sil® 9060
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METLOK PRIVATE LIMITED
(An ISO 9001 Certified Company)
W-27, M.I.D.C. Industrial Area
Kalmeshwar – 441 501, Nagpur

Product Description

My-T-Sil® 9060 is a non-slumping, non-corrosive, low odor, low volatile, single component, room temperature vulcanizing (RTV) silicone adhesive/sealant.

My-T-Sil® 9060 is typically used in applications with an operating range of -65 °C to 250 °C.

Product Characteristic

My-T-Sil® 9060 provides the following product characteristics:

Technology	: Silicone
Chemical Type	: Oxime silicone
Components	: One component
Appearance	: Non-slump paste
Viscosity	: Viscous non-slump paste
Cure	: Room temperature vulcanizing (RTV)
Service temperature	: -65 °C to +250 °C
Application	: Gasket and Sealant
Flexibility	: Enhances load bearing & shock absorbing characteristics of the bond area.
Specific Application	: Gasket replacement or Gasket dressing or Sealing
Specific Benefit	: Adheres to a wide range of Substrates and Excellent resistance to various automotive fluids.

Applications:

It is designed primarily for flange sealing for manual transmission, gear axle and general powertrain applications.

Properties

Colour	: Blue/Black/Red
Component	: Single
Appearance	: Paste
Specific Gravity @ 25 °C	: 1.4 ± 0.05
Temperature Resistance, °C	: - 65 to +250

Cure Characteristics @ Room Temperature (25±2 °C)/ 50±5 % RH

Skin Over Time, minutes	: 10 - 20
Tack Free Time, minutes	: 40 - 60
Cure Time [3mm thickness], hrs	: 24

Physical properties: 3 mm strip cure for 7 days @ 25±2 °C / 50±5% RH:

Hardness, Durometer- Shore A, ASTM D 2240	: 45 - 65
Tensile Strength , ASTM D 412, N/mm ²	: 1.8 - 2.5
Elongation, ASTM D 412, %	: ≥ 200

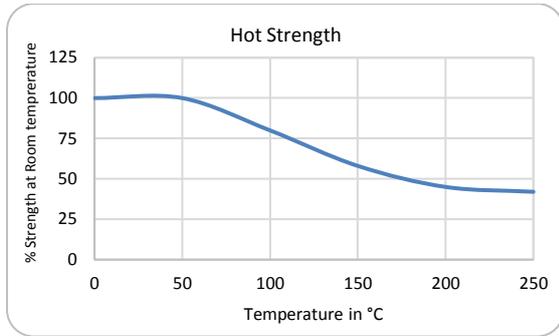
Adhesive Properties of Cured Material

After 7 days @ 25±2 °C/50±5% RH & 0.5 mm gap	
Lap Shear Strength, ASTM D 1002	
Steel to Steel	: ≥ 2 N/mm ²
Aluminum to Aluminum	: ≥ 2 N/mm ²

Hot Strength

After 7 days @ 25±2 °C/50±5% RH and 0.5 mm gap	
Lap Shear Strength, ASTM D 1002	
Substrate	: Steel

Tested at temperature



Heat Aging

Cure 7 days @ 25±2 °C/50±5% RH and 0.5 mm gap and aged under temperature indicated for 168 hrs and tested @ 25±2 °C

% Initial Value retained @120 °C

Lap Shear Strength, : 140 %
ASTM D 1002

Fluid Immersion

Cure 7 days @ 25±2 °C/50±5% RH and 0.5 mm gap and Immersed in engine oil @ 150 °C for 168 hrs and tested @ 25±2 °C

% Initial Value retained in Engine Oil @150 °C

Lap Shear Strength, : 100 %
ASTM D 1002

Chemical/Solvent Resistance

Test : Lap Shear Strength, ASTM D-1002
Substrate : Steel
Cure : 24 hrs @ 25±2 °C

Aged under condition indicated and tested @ 25±2 °C.

Environment	Temp (°C)	% of initial strength	
		168 hrs	500 hrs
Engine Oil	120	100	100
Gear oil	120	100	100
Water Glycol (50/50)	87	100	100
Brake fluid	87	100	100
Unleaded Petrol	25±2	100	100
Diesel	25±2	100	100

Directions for Use

1. My-T-Sil® 9060 silicone is supplied ready for use. It can be readily squeezed from its cartridge and easily tooled.

2. For best performance bond surfaces should be clean and free from grease.
3. Remove excess sealant immediately with a cloth dampened with non-polar solvents.
4. Full properties will develop over 7days.
5. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.
6. Press or firmly clamp parts together. Do not slide parts together.
7. Excess material can be easily wiped away with non-polar solvents.
8. Excess cured material can be removed with a knife or sharp single edge razor blade. Avoid undercutting the seal.

Storage and Handling

- ❖ Store My-T-Sil® 9060 silicone in the unopened container in a dry location at 25±2 °C.
- ❖ My-T-Sil® 9060 will exhibit a shelf life of 6 months from the date of manufacture when stored as mentioned above.
- ❖ Material removed from containers may be contaminated during use.
- ❖ Do not return product to the original container.
- ❖ Containers should always be kept sealed when not in use.
- ❖ After a container has been opened a plug of cured material may form in the nozzle during storage.
- ❖ When ready to re-use, unscrew the nozzle and remove the cured plug. The remaining sealant is ready to use.
- ❖ If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Pack Size

My-T-Sil® 9060 silicone is ideally available in 100 ml tube 280 ml cartridge and 20kg bucket/pail.

Note

All statements, technical information and recommendations set forth herein are based on tests which Metlok Private Limited, believes to be reliable. However, Metlok Private Limited does not guarantee their accuracy or completeness. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and

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