

## TEROSON® SI 9160 ALM™

Known as Silatech™ Aluminum RTV Silicone  
May 2015

### PRODUCT DESCRIPTION

TEROSON® SI 9160 ALM™ provides the following product characteristics:

<b>Technology</b>	Silicone
Chemical Type	Acetoxy silicone
Appearance (uncured)	Aluminum homogeneous paste <sup>HMS</sup>
Components	One component - requires no mixing
<b>Cure</b>	Room temperature vulcanizing (RTV)
<b>Application</b>	Sealing or Bonding
Specific Benefit	Non-sag property allows it to be used on vertical and horizontal surfaces.
Flexibility	Enhances load bearing & shock absorbing characteristics of the bond area.

TEROSON® SI 9160 ALM™ is designed for bonding and sealing metals, wood, plastic, glass, and other substrates. The product cures to provide a tough, flexible, waterproof, oil-resistant silicone rubber seal. This product resists aging, weathering and thermal cycling without hardening, shrinking or cracking. Typical applications include electrical insulation, protection of leads from mechanical shock, trim bonding, and sealing of ductwork, vents, flues, doors, and windows. This product is typically used in applications up to 200 °C.

### TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.03
Odor	Acetic Acid
Flash Point - See SDS	
Extrusion Rate, g/min:	
Pressure 0.63 MPa, time 15 seconds, temperature 25 °C:	
Semco Cartridge	250 to 600 <sup>HMS</sup>

### TYPICAL CURING PERFORMANCE

TEROSON® SI 9160 ALM™ cures on exposure to moisture in the air. The product dries tack free in 25 minutes and fully cures in 24 hours. Cure times will vary with temperature, humidity and gap.

### Tack Free Time

Tack Free Time, minutes ≤25<sup>HMS</sup>

### TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 1 week @ RT

#### Physical Properties:

Shore Hardness, ISO 868, Durometer A	≥14 <sup>HMS</sup>
Elongation, ISO 37, %	≥275 <sup>HMS</sup>
Tensile Strength, ISO 37	N/mm <sup>2</sup> ≥0.8 <sup>HMS</sup> (psi) (≥116)

### 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 bond surfaces should be clean and free from grease.
2. Full performance properties will develop over 72 hours.
3. 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.
4. Excess material can be easily wiped away with non-polar solvents.

### Henkel Material Specification<sup>HMS</sup>

HMS dated June 1, 2003. Test reports for each batch are available for the indicated properties. HMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

**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 Technical Service Center or Customer Service Representative.

**Conversions**

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

**Note:**

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.

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## Reference 1.5