

**LOCTITE 862566-B10**

December 2016

**PRODUCT DESCRIPTION**

LOCTITE 862566-B10 provides the following product characteristics:

<b>Technology</b>	Silicone
<b>Appearance</b>	white
<b>Components</b>	One-component
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• Fireproof</li><li>• Non-corrosive</li><li>• Non-conductive</li><li>• Water resistant</li><li>• Excellent environmental resistance</li><li>• Excellent cold and heat aging</li></ul>
<b>Cure</b>	Room temperature vulcanizing (RTV)
<b>Application</b>	Gasketing & sealing
<b>Typical Assembly Applications</b>	Adhering and sealing electronic wiring
<b>Operating Temperature</b>	-50 to 200 °C

LOCTITE 862566-B10 silicone sealant has excellent adhesion and can be used to seal electronic components.

LOCTITE 862566-B10 is UL certified. File Number: E254205 .

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

Specific Gravity	1.45 to 1.65
Shelf Life @ 27°C, months	12
Flash Point - See SDS	

**TYPICAL CURING PERFORMANCE**

LOCTITE 862566-B10 cures on exposure to moisture in the air. Cure times vary with temperature, humidity and gap size.

**Tack Free Time**

Tack Free Time, minutes	≤20
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**TYPICAL PROPERTIES OF CURED MATERIAL****Physical Properties :**

Shore Hardness, Shore A	50 to 70
Tensile Strength, N/mm <sup>2</sup>	≥1.5
Elongation , at break,%	≥180
Linear Shrinkage, %	0.5
Peel Strength, KN/m	≥0.8

**Electrical Properties:**

Dielectric Constant / Dissipation Factor :	
1MHz	3.0 / 0.001
Volume Resistivity , ohms-cm	2.54×10 <sup>14</sup>
Dielectric Strength, kV/mm	≥14

**TYPICAL PERFORMANCE OF CURED MATERIAL****Shear Strength**

Lap Shear Strength :

Aluminum	N/mm <sup>2</sup> ≥0.8
	(psi) (≥116)

**GENERAL INFORMATION**

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

**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.**

**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.

**DIRECTIONS FOR USE**

1. Bonding surfaces should be clean of contaminants such as paint, dirt, oil or other foreign matter.
2. Moisture curing begins immediately after product is exposed to the atmosphere. Parts should be assembled within a few minutes after the product is applied.

**STORAGE:**

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

**Optimal Storage : 27 °C**

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.

**Do not return products to refrigerated storage; any surplus product should be discarded.**

## Conversions

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

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

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

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

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

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

$\text{MPa} = \text{N/mm}^2$

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

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

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

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

## Disclaimer

### 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 **N/A**

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