



LOCTITE[®] 5920[™]

November 2004

PRODUCT DESCRIPTION

LOCTITE[®] 5920[™] provides the following product characteristics:

Technology	Silicone
Chemical Type	Oxime silicone
Appearance (uncured)	Copper colored paste ^{LMS}
Components	One component - requires no mixing
Thixotropic	Reduced migration of liquid product after application to substrate
Cure	Room temperature vulcanizing (RTV)
Application	Gasketing or Sealing
Specific Benefit	Adheres to a wide range of substrates.

LOCTITE[®] 5920[™] is used to fill voids and irregularities in surfaces for a positive seal. It adheres to metal, glass, natural and synthetic fibers, wood, ceramics, other silicone rubbers, painted surfaces and many plastic substrates. It is also used for electrical insulating applications. This product is typically used in applications up to 350 °C.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 20 °C 1.05
 Flash Point - See MSDS
 Extrusion Rate, g/min:
 Pressure 0.62 MPa, time 15 seconds, temperature 25 °C:
 Semco Cartridge ≥275^{LMS}
 Flow, ISO 7390, mm:
 After 2 @ 25 °C ≤13^{LMS}

TYPICAL CURING PERFORMANCE

Surface Cure

Tack Free Time is the time required to achieve a tack free surface.

Tack Free Time, minutes:
 Cured @ 25 °C / 50±5% RH 20 to 60^{LMS}

TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 1 week @ 25 °C / 50±5% RH

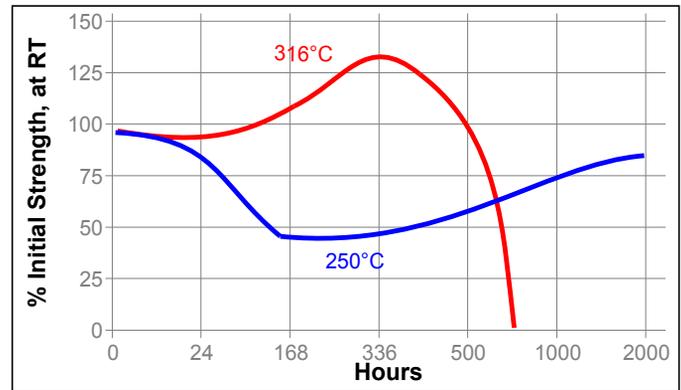
Physical Properties:

Coefficient of Thermal Expansion, ASTM D 696, K⁻¹ 0.1
 Coefficient of Thermal Conductivity, ASTM C 177, W/(m·K) 0.21
 Specific Heat, kJ/(kg·K) 0.3
 Shore Hardness, ASTM D 2240, Durometer A 23 to 38^{LMS}
 Elongation, ASTM D 412, % ≥350^{LMS}
 Tensile Strength, ASTM D 412 N/mm² ≥1.4^{LMS}
 (psi) (≥203)

TYPICAL ENVIRONMENTAL RESISTANCE

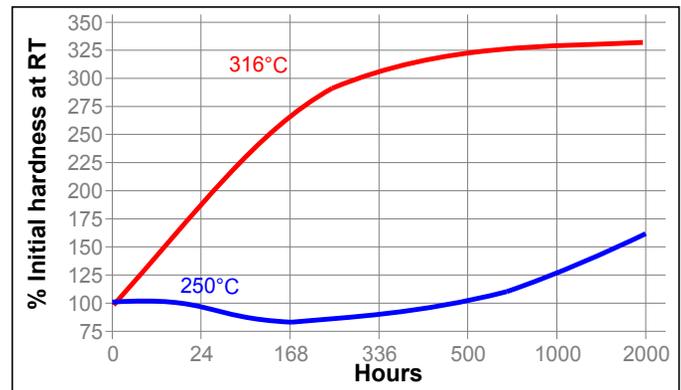
Heat Aging

Aged at temperature indicated and tested @ 22 °C
 Tensile Strength, ASTM D 412



Heat Aging

Aged at temperature indicated and tested @ 22 °C
 Shore Hardness, ASTM D 2240, Durometer A



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 (MSDS).

Directions for use

1. For best performance bond surfaces should be clean and free from grease

NOTE: *Do not use petroleum cleaners such as mineral spirits, kerosene, or gasoline to clean parts as they will leave an oily film.*

2. Full performance properties will develop over 24 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

CAUTION: *DO NOT USE FOR APPLICATIONS WHERE SEALANT IS IN CONSTANT CONTACT WITH GASOLINE. DO NOT USE FOR HEAD GASKETING.*

Loctite Material Specification^{LMS}

LMS dated May 13, 2004. Test reports for each batch are available for the indicated properties. LMS 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

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

Note

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Reference 1.1