Technical Data Sheet

LOCTITE® MR 5923™

Known as LOCTITE® 5923™ or Aviation Gasket Sealant
June 2022

PRODUCT DESCRIPTION

LOCTITE® MR 5923™ provides the following product characteristics:

Technology	Solvent based
Chemical Type	Modified resin, fillers and alcohol
Appearance	Brown liquid[LMS]
Viscosity	Flow similar to SAE 10 Motor Oil
Cure	Air dry
Application	Gasketing & sealing
Specific Benefits	• For close tolerance flanges • Slow drying • Flexible setting

LOCTITE® MR 5923™ seals close fitting parts, machined surfaces and threaded connections in industrial, aircraft, and marine applications. It is a slow drying liquid that changes to a pliable, tacky film through solvent evaporation. Typical applications include solid gasket dressing, close fitting machined surfaces, threaded connections, aviation engines and marine engines. This product is typically used in applications with an operating range of -54 °C to +204 °C.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.1
Flash Point - See SDS	
Viscosity, Brookfield - RV,25°C,mPa·s (cP):	
Spindle 3, speed 5 rpm	8,000 to 10,000[LMS]

TYPICAL CURING PERFORMANCE

LOCTITE® MR 5923™, once applied, develops a hard, semi-flexible sealant by solvent evaporation. Dry times will vary with temperature, humidity and gap.

TYPICAL ENVIRONMENTAL RESISTANCE

Chemical/Solvent Resistance

LOCTITE® MR 5923™ retains effective properties in contact with water, ethylene glycol, gasoline, motor oil, transmission fluid and sea water

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. Remove all previous material from mating surfaces.
2. For best results, clean and prep the area with an oil free solvent.
3. Remove cap. Coat with brush-top applicator.
4. When used as a gasket dressing, spread product with a spatula to a uniform film on one side of gasket and then position it on the assembly. Coat the second side of gasket and re-assemble. Slower drying formula increases work time.
5. Assembly is operational after 4 hours, full cure is effective after 24 hours.
6. The product can be removed from metal surfaces with isopropyl alcohol. If the sealant has been dried for a long time or at high temperatures, cover the sealant with alcohol and allow to soften overnight.

Clean-up

1. Clean hands with hand cleaners.

Loctite Material Specification[LMS]

LMS dated August 02, 2001. 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 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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