

LOCTITE® 128467

July 2022

PRODUCT DESCRIPTION

LOCTITE® 128467 provides the following product characteristics:

Technology	Acrylic		
Chemical Type	Urethane methacrylate		
Appearance (uncured)	Green liquid ^{™S}		
Fluorescence	Positive under UV light		
Components	One component - requires no mixing		
Viscosity	Low		
Cure	Anaerobic		
Secondary Cure	Activator		
Application	Retaining		
Strength	High		

LOCTITE[®] 128467 is designed for the bonding of cylindrical fitting parts, particularly where strength at elevated temperatures is required. The product develops high strength rapidly when confined in the absence of air between close fitting metal surfaces. Typical applications include holding gears and sprockets onto gearbox shafts and rotors on electric motor shafts.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C 1.13

Flash Point - See SDS

Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):

Spindle 2, speed 20 rpm 450 to 800^{LMS}

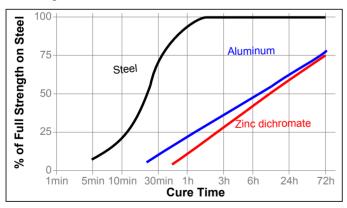
Viscosity, EN 12092 - MV, 25 °C, after 180 s, mPa·s (cP):

Shear rate 129 s⁻¹ 300 to 600

TYPICAL CURING PERFORMANCE

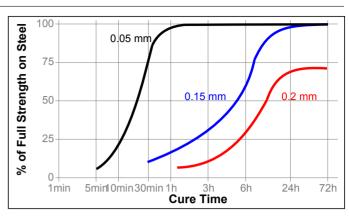
Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the shear strength developed with time on steel pins and collars compared to different materials and tested according to ISO 10123.



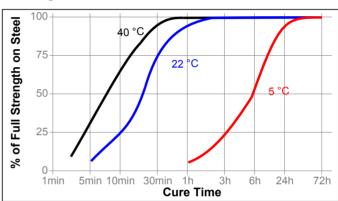
Cure Speed vs. Bond Gap

The rate of cure will depend on the bondline gap. The following graph shows shear strength developed with time on steel pins and collars at different controlled gaps and tested according to ISO 10123.



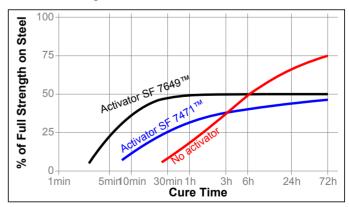
Cure Speed vs. Temperature

The rate of cure will depend on the temperature. The graph below shows the shear strength developed with time at different temperatures on steel pins and collars and tested according to ISO 10123.



Cure Speed vs. Activator

Where cure speed is unacceptably long, or large gaps are present, applying activator to the surface will improve cure speed. The graph below shows the shear strength developed with time on zinc dichromate steel pins and collars using and tested according to ISO 10123.





TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Coefficient of Thermal Expansion, ISO 11359-2. K ⁻¹	80×10 ⁻⁶
Coefficient of Thermal Conductivity, ISO 8302,	0.1
W/(m·K) Specific Heat, kJ/(kg·K)	0.3

TYPICAL PERFORMANCE OF CURED MATERIAL Adhesive Properties

After 24 hours @ 22 °C

Compressive Shear Strength, ISO 10123:

Steel pins and collars

N/mm² 26.5

(psi) (3.900)

TYPICAL ENVIRONMENTAL RESISTANCE

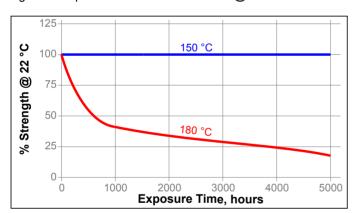
Cured for 1 week @ 22 °C Compressive Shear Strength, ISO 10123: Steel pins and collars

Hot Strength

Tested at temperature

Heat Aging

Aged at temperature indicated and tested @ 23 °C



Chemical/Solvent Resistance

Aged under conditions indicated and tested @ °C

		% of initial strength		
Environment	°C	100 h	500 h	1000 h
Motor oil (MIL-L-46152)	125	100	100	100
Unleaded Petrol	22	100	100	100
Brake fluid	22	100	100	100
Water/glycol 50/50	87	100	90	75
Ethanol	22	100	100	100
Acetone	22	100	100	100

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).

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

Directions for use For Assembly

- For best results, clean all surfaces (external and internal) with a LOCTITE[®] cleaning solvent and allow to dry.
- 2. If the material is an inactive metal or the cure speed is too slow, spray with LOCTITE[®] SF 7471[™] or LOCTITE[®] SF 7649[™] and allow to dry.
- For Slip Fitted Assemblies, apply adhesive around the leading edge of the pin and the inside of the collar and use a rotating motion during assembly to ensure good coverage.
- For Press Fitted Assemblies, apply adhesive thoroughly to both bond surfaces and assemble at high press on rates.
- For Shrink Fitted Assemblies the adhesive should be coated onto the pin, the collar should then be heated to create sufficient clearance for free assembly.
- Parts should not be disturbed until sufficient handling strength is achieved.

For Disassembly

 Apply localized heat to the assembly to approximately 250 °C. Disassemble while hot.

Clean-up

 Cured product can be removed with a combination of soaking in a LOCTITE[®] solvent and mechanical abrasion such as a wire brush.

Loctite Material Specification^{LMS}

LMS dated December 8, 1998. 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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Reference 0.1