

LOCTITE® SF 7109™

Known as LOCTITE® 7109™
September 2016

PRODUCT DESCRIPTION

LOCTITE® SF 7109™ provides the following product characteristics:

Technology	Cyanoacrylate Activator
Chemical Type	Amine (active ingredient)
Solvent	Perfluorocarbon
Active Ingredient Concentration, %	0.6 to 0.85 ^{LMS}
Appearance	Colorless transparent liquid ^{LMS}
Viscosity	Very low
Cure	Not applicable
Application	CA adhesive cure accelerator

LOCTITE® SF 7109™ is used where increased cure speed of LOCTITE® cyanoacrylate adhesives is required. It can be either pre- or post-applied to the bond. The product is non-flammable.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.56
Drying Time @ 20 °C, seconds	≤5
On Part Life, minutes	≤1
Flash Point - See SDS	
Infrared Spectroscopy	To match standard ^{LMS}

TYPICAL PERFORMANCE

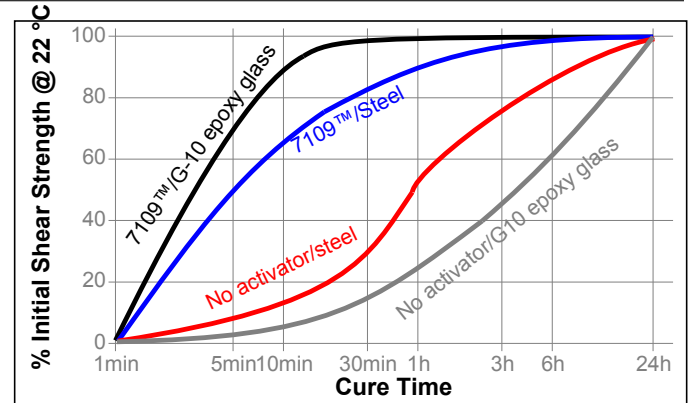
Fixture time and cure speed achieved as a result of using LOCTITE® SF 7109™ depend on the adhesive used and the substrate bonded.

Fixture Time, ISO 4587, seconds:	
Steel (grit blasted) using LOCTITE® 416™, single side activation	≤5 ^{LMS}

(Fixture time is defined as the time to develop a shear strength of 0.1 N/mm²)

Strength vs. Time

The graph below shows the shear strength developed with time using LOCTITE® SF 7109™ with LOCTITE® adhesive 416™. Testing was performed @ 22 °C in accordance with ISO 4587.



TYPICAL PERFORMANCE OF CURED MATERIAL

After 2 minutes @ 22°C,

Lap Shear Strength, ISO 4587:

Steel (grit blasted), with 416™ adhesive	N/mm ² ≥6.0 ^{LMS}
	(psi) (≥870)

Handling precautions

The solvent can affect certain plastics or coatings. It is recommended to check all surfaces for compatibility before use.

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected with a sealant for chlorine or other strong oxidizing materials.

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

Under no circumstances should activator and adhesive be mixed directly as liquids. Use only in a well ventilated area.

Directions for use**Post Activation**

1. Apply Loctite cyanoacrylate to the parts to be bonded or fixed.
2. Apply Activator over all exposed cyanoacrylate adhesive by spray or drop. (Typically use one drop of activator per drop of exposed adhesive).

Surface Activation

1. Apply one coating of Activator to the area to be bonded by spray, brush or dipping. Contaminated surfaces may need special cleaning or degreasing prior to activation to remove any soluble contamination.
2. Allow LOCTITE® SF 7109™ to fully evaporate from parts prior to bonding to avoid solvent entrapment within the bond joint.
3. Apply the Loctite cyanoacrylate product immediately after drying or not more than 45 seconds thereafter.
4. Activator can be re-applied if necessary if there is a delay of more than 45 seconds between original activator and adhesive application.
5. Due to physical solvency effects material may become cloudy which does not affect performance. To eliminate cloudiness heat material to 30C, then shake.

Loctite Material Specification^{LMS}

LMS dated September 25, 1996. 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

The product is light sensitive and accordingly, translucent containers should be kept in a dark place when not in use. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

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 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

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Reference 1.2