

Technical data sheet



Product: INI5

Manufacturer: HENKEL KGAA

Product group: KLEBSTOFF

Article group: INITIATOR

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LOCTITE® SF INI5

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LOCTITE® SF INI5

Known as LOCTITE® Ini. No.5
September 2014

PRODUCT DESCRIPTION

LOCTITE® SF INI5 provides the following product characteristics:

Technology	Activator for LOCTITE® toughened acrylic adhesives
Chemical Type	Substituted dihydropyridine
Solvent	None
Appearance	Amber to light brown liquid ^{LMS}
Viscosity	Low
Cure	Not applicable
Application	Cure promotion of toughened acrylic adhesives

LOCTITE® SF INI5 is designed to initiate the cure of Loctite toughened acrylic adhesives Loctite F241 and Loctite F246.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.0
Viscosity @ 25°C, mPa·s (cP)	≤60
Flash Point - See SDS	

TYPICAL PERFORMANCE

Fixture time and cure speed achieved as a result of using LOCTITE® SF INI5 depend on the adhesive used, the substrate bonded, surface cleanliness and whether one or two surface activation is used.

Fixture Time, ISO 4587, seconds:

Steel (grit blasted) using LOCTITE® F246 single side activation	≤45 ^{LMS}
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(Fixture time is defined as the time to develop a shear strength of 0.1 N/mm²)

TYPICAL PERFORMANCE OF CURED MATERIAL

Cured for 24 hours @ 22 °C

Adhesive Properties

Shear Strength

Lap Shear Strength, ISO 4587:

Aluminum (Gritblasted), using LOCTITE®F246™	N/mm ² >10 ^{LMS} (psi) (1,450)
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Handling precautions

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.

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.

Directions for use:

1. Most surfaces may be bonded "as received" but contamination such as loose oxide layers or excessive oil may affect cure speed and bond strength. Cleaning is recommended if maximum strength is required.
2. Brush on the initiator to one of the mating surfaces to be bonded. The use of excess initiator will reduce the bond strength. Apply adhesive to other surface.
3. For large gaps (>0.4 mm) or where maximum cure speed is required then treatment of both surfaces is recommended.
4. The initiator will not dry and will remain active for up to 30 minutes. Bond assembly should be completed within this time.
5. Where adhesive is applied onto an activated surface, assembly should be completed as quickly as possible (within 15 seconds).
6. Secure the assembly and await fixturing before any further handling..

Loctite Material Specification^{LMS}

LMS dated August 15, 2013. 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. Material removed from containers may be contaminated during use. Do not return liquid to original container. 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.

Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those recommended. 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 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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