



## Loctite Si 5700 A/B Technical Information Sheet

AG EMEA PRODUCT DEVELOPMENT

FAS, Cerano, Italy

November 2012 rev. 1

### PRODUCT DESCRIPTION

LOCTITE® Si 5700 A/B is a two-part, room temperature curing silicone. LOCTITE® Si 5700 A/B is a transparent polyaddition curing silicone for potting. Its fast curing kinetic allows handling after few hours. LOCTITE® Si 5700 A/B has outstanding UV resistance.

### PROPERTIES OF THE MATERIAL

#### UNCURED LFD 678 A

Chemical Type  
Appearance  
Viscosity (STM 740)  
Specific Gravity at 25°C

TYPICAL VALUE  
Silicone  
Transparent liquid  
4700 mPa.s  
1,0 g/cc

#### UNCURED LFD 678 B

Chemical Type  
Appearance  
Viscosity (STM 740)  
Specific Gravity at 25°C

TYPICAL VALUE  
Silicone  
Transparent liquid  
8600 mPa.s  
1,0 g/cc

#### CURING PROPERTIES LFD 678 A/B (25°C / 50% H)

Ratio (by volume) A : B  
Gel time  
Tack Free Time

TYPICAL VALUE  
1 : 1  
Around 30 min  
Around 220 min

#### CURED 7 DAYS @ 25°C/50%RH

Tensile Strength  
Elongation at break  
Hardness Shore A

TYPICAL VALUE  
3 MPa  
190 %  
39 Shore A

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.  
PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR  
THIS PRODUCT. ROCKY HILL, CT FAX: +1 (860)-571-5473 DUBLIN, IRELAND FAX: +353-(1)-451-9959

## **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 and other strong oxidizing materials.**

**Material Safety Data Sheet (MSDS) for LOCTITE® Loctite® Si 5700 A/B is available.**

### **NOT FOR PRODUCT SPECIFICATIONS.**

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

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.

#### **Directions for use**

1. For best performance surfaces for bonding should be clean, dry and free of grease. For high strength structural bonds, special surface treatments can increase the bond strength and durability.
2. Keep the assembled parts from moving during cure. The joint should be allowed to develop full strength before subjecting to any service loads.
3. Excess uncured adhesive can be wiped away with organic solvent (e.g. acetone).
4. Certain materials can inhibit the curing of LOCTITE® Loctite® Si 5700 A/B such as organotin compounds, sulfur-containing materials, amine-containing materials.

#### **Storage**

**Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 70°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Centre.**

#### **Data Ranges**

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

#### **Note**

**LOCTITE® Si 5700 A/B is experimental only. It is not now and may never be commercially available.**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a licence under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Product Development

November 2012

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