



BERGQUIST® GAP FILLER TGF 3600

December 2025

Product description

A thermally conductive, liquid gap filler material.

Technology	Silicone
Appearance (cured)	Blue
Appearance - Part A	White
Appearance - Part B	Blue
Cure	Room temperature cure or heat cure
Application	Thermal management TIM (Thermal Interface Material)
Mix Ratio by weight: Part A : Part B	1 : 1
Mix ratio by volume: Part A: Part B	1 : 1
Operating temperature range	-60 to 200°C

Features and benefits

- Thermal Conductivity: 3.6 W/m-K
- Thixotropic nature makes it easy to dispense
- Two-part formulation for easy storage
- Ultra-conforming, designed for fragile and low-stress applications
- Ambient and accelerated cure schedules

BERGQUIST® GAP FILLER TGF 3600 is a two-component liquid gap filling material, cured at either room or elevated temperature, featuring ultra-high thermal performance and superior softness. Prior to curing, the material maintains good thixotropic characteristics as well as low viscosity.

The result is a gel-like liquid material designed to fill air gaps and voids yet flow when acted upon by an external force (e.g. dispensing or assembly process). The material is an excellent solution for interfacing fragile components with high topography and/or stack-up tolerances to a universal heat sink or housing.

Once cured, it remains a low modulus elastomer designed to assist in relieving CTE stresses during thermal cycling yet maintain enough modulus to prevent pump-out from the interface. BERGQUIST® GAP FILLER TGF 3600 will lightly adhere to surfaces, thus improving surface area contact. BERGQUIST® GAP FILLER TGF 3600 is not designed to be a structural adhesive.

Typical applications

- Automotive electronics (HEV, NEV, batteries)
- PCBA to housing
- Discrete components to housing
- Fiber optic telecommunications equipment

Typical properties of uncured material

Mixed Viscosity, Brookfield - RV, - Helipath, ASTM D2196 , 25 °C, mPa·s (cP):

Spindle TF, speed 20 rpm 150,000

Density, ASTM D792, g/cc

3.0

Pot life @ 25°C, time for viscosity to double, minutes

60

Shelf life @ 25°C, days

150

TYPICAL CURE SCHEDULE

Cure schedule

15 hours @ 25°C

30 minutes @ 100°C

Rheometer - time to read 90% cure.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical properties

Hardness, Shore 00, Thirty second delay value, ASTM D2240 35

Flammability, UL 94 V-0

Electrical properties

Dielectric strength, ASTM D149, V/mil 275

Dielectric constant, ASTM D150 @ 1,000 Hz 8.0

Volume resistivity, ASTM D257, ohm-meter 1×10^{08}

Thermal properties

Thermal conductivity, ASTM D5470, W/(m-K) 3.6

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).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on the specifications of this product.

The above cure profiles are guideline recommendations.

Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.



Configurations available

BERGQUIST® GAP FILLER TGF 3600 is available in the following configurations:

- Cartridges (600 cc x 2, 1200 cc kit)
- Pails (5 gal x 2, 10 gal kit)

Please check with your Henkel Technical Sales lead or Applications Engineer for additional packaging options and recommendations for dispensing including static mix tube options.

Storage

Store product in a cool, dry environment in the unopened container(s) as packaged and supplied by Henkel. See container labeling for latest updates on product storage and handling.

Shelf Life: Five (5) months in unopened containers as packaged and stored at 25°C/50%RH per Expiration Date as listed on the container label.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

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. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:

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, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel 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 license under any Henkel 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.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 2