

# Technical data sheet



Product: 1300L

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: LÖSEMITTEL

Download: 21.05.2026

## 3M™ SCOTCH-WELD™ EC-1300 & EC-1300L

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH  
Industriestraße 15  
D-75382 Althengstett

Telephone:  
+49(0)7051/9297-0  
Fax:  
+49(0)7051/9297-99

E-Mail:  
info@tewipack.de  
Website:  
www.tewipack.de

Managing director:  
Alexander Uhl,  
Michael Uhl  
HRB 330424  
Amtsgericht  
Stuttgart

Bank details:  
Sparkasse  
Sindelfingen  
Pforzheim  
Calw  
BLZ 666 500  
85  
Konto 17 787

Commerzbank  
Sindelfingen  
BLZ 603 400 71  
Konto 8 001 166

Vereinigte  
Volksbank AG  
Böblingen  
BLZ 603 900 00  
Konto 80 089  
003

Postbank  
Stuttgart  
BLZ 600 100  
70  
Konto 146  
294 708

# 3M™ Scotch-Weld™ Neoprene High Performance Rubber & Gasket Adhesive EC-1300 and EC-1300L

## Technical Data Sheet

### Product Description

3M™ Scotch-Weld™ Neoprene High Performance Rubber & Gasket Adhesives EC-1300 and EC-1300L are the most versatile of our rubber and gasket adhesives. They may be used to bond metal, wood, most plastics, and neoprene, reclaim, SBR, and butyl rubber. They have high immediate strength and excellent heat resistance.

### Features

- 3M™ Scotch-Weld™ Neoprene High Performance Rubber & Gasket Adhesive EC-1300L meets specification requirements of MMM-A-121.
- Temperature performance range is -30°F (-34°C) to 300°F (149°C).
- Bonding Range: 3M Adhesive EC-1300 up to 12 minutes; 3M Adhesive EC-1300L up to minutes.
- Bonds neoprene, SBR, butyl and other types of rubber to various substrates.
- 3M Adhesive EC-1300L is a lower solids viscosity version of 3M Adhesive EC-1300, for easier brushing and sprayability.

### Typical Physical Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

| Product                | EC-1300  | EC-1300L   |
|------------------------|--|--|
| Viscosity (approx):    | 1300 – 4100 cps  | 250 – 1000 cps   |
| Brookfield Viscometer: | RVF #4 sp @ 20 rpm @ 80°F (27° C)                        | RVF #2 sp @ 20 rpm @ 80° F (27° C)                       |
| Solids (by wt):        | 33.5 to 39.5%  | 26.0 to 33.0%  |
| Base:                  | Polychloroprene  | Polychloroprene  |
| Color:                 | Yellow   | Yellow   |
| Net Wt. (approx.):     | 7.3 – 7.7 lbs/gal  | 6.9 – 7.3 lbs/gal  |
| Solvent:*              | Petroleum distillate,<br>methyl ethyl ketone and toluene | Petroleum distillate,<br>methyl ethyl ketone and toluene |

\*These products contain non-photochemically reactive solvent



## Handling/Application Information

### 1. Surface Preparation

Remove all dust, dirt, oil, grease, wax, loose paint, etc. Wiping with a solvent such as methyl ethyl ketone (MEK)\* will aid in preparing the surface for bonding.

### 2. Application Temperature

For best results, the temperature of the adhesive and surfaces to be bonded should be at least 65°F (18°C). If stored below 30°F (-1°C), allow adhesive to warm to room temperature by placing in a warm room only (do not exceed 120°F [49°C]) followed by thorough agitation.

### 3. Application

Stir well before using. Brush, flow or spray a thin, uniform coating of adhesive to each surface. A coating of 2.5 gms to 3.5 gms/ft.<sup>2</sup> dry weight per surface is recommended. Porous surfaces may require more than one coat. A uniform, glossy film indicates sufficient adhesive.

### 4. Drying Time

Allow adhesive to dry until no longer wet (maximum dry time about 4 minutes).

### 5. Bonding Range

Once dry, these adhesives have a short bonding range (up to 8 to 12 minutes).

### 6. Curing Time

Position surfaces carefully before assembly. Bonding is immediate upon contact. Apply sufficient pressure to ensure good contact between coated surfaces. Bonded parts may be handled immediately.

### 7. Reactivation

Greater immediate strength may be obtained by solvent reactivation. To solvent reactivate, coat both surfaces with adhesive and allow to dry tack free. Lightly wipe one surface with methyl ethyl ketone (MEK)\* and complete bonding within 30 seconds.

### 8. Cleanup

Use a solvent such as 3M™ Solvent No. 2\* or methyl ethyl ketone (MEK)\* to clean brushes immediately after use. Excess adhesive may be removed from other surfaces with 3M™ Citrus Base Cleaner\* or equivalent.

\*Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow manufacturer's precautions and directions for use.

**Typical Adhesive Performance Characteristics**

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

| 180° Peel Strength Canvas/Steel |                  |             | Overlap Shear Strength** 1/8" Birch / 1/8" Birch |             |
|---------------------------------|------------------|-------------|--|-------------|
| Time                            | Test Temperature | Value (piw) | Test Temperature                                 | Value (psi) |
| 1 day                           | 75°F (24°C)      | 18          | -30°F (-34°C)                                    | 343         |
| 3 days                          | 75°F (24°C)      | 48          | 75°F (24°C)                                      | 549         |
| 5 days                          | 75°F (24°C)      | 51          | 150°F (66°C)                                     | 195         |
| 7 days                          | 75°F (24°C)      | 52          | 180°F (82°C)                                     | 136         |
| 2 weeks                         | 75°F (24°C)      | 30*         | 200°F (93°C)                                     | 85          |
| 3 weeks                         | 75°F (24°C)      | 20*         | 225°F (110°C)                                    | 85          |
| After 3 weeks                   | -30°F (-34°C)    | 49          |  |             |
| After 3 weeks                   | 150°F (66°C)     | 32.5        |  |             |
| After 3 weeks                   | 180°F (82°C)     | 26          |  |             |

\* These values DO NOT reflect a loss in strength – but do represent an increase in modulus. Because of the adherends and procedure, bond failure is from the canvas. The actual strength of these adhesives is increasing.

\*\* Bonds aged 2 weeks at room temperature before testing.

**Authorization to Use**

Ensure products meet all applicable specifications, standards, and maintenance manual requirements for the platform being worked on and validate all aircraft approvals against current technical documentation.

**Shelf Life and Storage Conditions**

3M™ Scotch-Weld™ Neoprene High Performance Rubber and Gasket Adhesives EC-1300 and EC-1300L shelf life is 15 months from the date of shipment from 3M when stored between 60° to 80°F (16° to 27°C) in the original unopened container.

**Precautionary Information**

Refer to Product Label and Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501, and visit [www.3m.com/3M/en\\_US/company-us/SDS-search/](http://www.3m.com/3M/en_US/company-us/SDS-search/)

**For Additional information**

In the U.S., call toll free 1-800-235-2376, or fax 1-800-435-3082 or 651-737-2171. For U.S. Military, call 1-866-556-5712. If you are outside of the U.S., please contact your nearest 3M office.



These products are manufactured under a 3M Quality Management System registered to the AS9100 standard

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information. **Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. **Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence,



Automotive & Aerospace Solutions Division  
3M Center  
St. Paul, MN 55144-1000  
Phone 1-800-235-2376  
Web: [www.3M.com/aerospace](http://www.3M.com/aerospace)

1300, 1300L  
Issue date: 8/2020

3M and Scotch-Weld are trademarks  
of 3M Company  
© 3M 2020. All rights reserved.