

3M

Scotch-Weld™

Adhesive

EC-1458

Technical Data

June, 2004

Introduction

3M™ Scotch-Weld™ Adhesive EC-1458 is a solvent based type adhesive having very high strength and good resistance to gasoline and oil.

Scotch-Weld EC-1458 can be used for certain operations where a heavy-bodied, oil-resistant adhesive or fuel-resistant sealer is required.

Advantages

- Scotch-Weld EC-1458 has an unusually high adhesion to metal, glass, wood, synthetic rubber (especially Buna N types) and many other porous and non-porous surfaces. It displays excellent resistance to gasoline, oil and aromatic solvents.
- When applied by brush, one gallon will cover approximately 200 square feet.

Product Description

Color:	Transparent amber
Base:	Oil-resistant elastomer
Solvent:	Ethyl acetate, ethyl alcohol and methyl ethyl ketone (MEK)
Consistency:	Heavy syrup
Solids Content:	30 ± 1% by weight
Net Weight:	7.8 ± 0.2 lbs./gallon
Flash Point:	25°F (-°4C) [Set A Flash]

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Product Application

Surfaces should be clean and dry, free from oil or grease. Apply an even coat to both surfaces. The bond can be made by any of the following methods:

1. **Air Dry** – Allow the adhesive to dry until it exhibits an aggressive tack (1 to 3 minutes). On extremely porous surfaces, it is suggested that two coats be used, allowing about 2-5 minutes drying time between coats. Join the surfaces together, pressing firmly.
2. **Heat Reactivation** – Allow the surfaces to dry tack free. Apply heat at 250°F to 300°F (121°C to 149°C) to the adhesive surface. Bond as above.
3. **Solvent Reactivation** – Allow the adhesive to dry tack free. Wipe the surface with a rag moistened in ethyl acetate. Bond as above.

If desired, greater strength and oil resistance can be obtained by curing the bond at 300°F (149°C) for 20 minutes.

3M™ Scotch-Weld™ Adhesive EC-1458 can be brushed or flowed. Suitable pressure units are manufactured by Binks Mfg. Company, DeVilbiss Co., Johnstone Pump Company, Lincoln Engineering Co., Pyles Industries, Inc., or the Gray Co.

Excessive adhesive may be removed from equipment and work areas with a low-boiling ketone or ester solvent.*

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

Storage Stability

Store product at 60-80°F (15-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower temperatures cause increased viscosity of a temporary nature. Rotate stock on a "first-in - first-out" basis. Scotch-Weld EC-1458 has a shelf life of four (4) months from the date of shipment from 3M.

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Precautionary Information

Refer to Product Label and Material 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.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free (800) 235-2376. Address correspondence to: 3M Aerospace and Aircraft Maintenance Division, 3M Center, Building 220-9W-14, St. Paul, MN 55144. If you are outside of the U.S., please contact your nearest 3M office or branch.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

AS9100

This Aerospace and Aircraft Maintenance Division product was manufactured under a 3M quality system registered to AS9100 standards.



**Aerospace and Aircraft Maintenance Division
Transportation Business**

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