

Technical Data Sheet

3M™ Scotch-Seal™ Tamper Proof Sealant 1252

Product Description

3M™ Scotch-Seal™ Tamper Proof Sealant 1252 is a fast drying, anti-tamper sealer which is fire retardant.


Product Features

- Can be applied over adjustable or removable parts to indicate changes in adjustment or other evidence of tampering by a break in the seal when the part is altered in position.
- Has been effectively used in the electronics industry to protect settings and calibrations of electronic equipment against tampering, to seal electronic components between stages of assembly, to aid in the visual inspection of subassembly components, equipment and parts which are restricted to adjustment, alteration, or access by qualified personnel.
- Exposed surfaces will accept ink from an inspector's approval stamp and can be marked as soon as 20 seconds after the sealer application.

Technical Information Note

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

Typical Physical Properties

Property	Values	Additional Information
Solids Content by Weight	61 to 73 %	
Color	White	
Net Weight	13.1 to 14.1 lb	
Flash Point	-4 °C	
Flash Point	20 °F	
Solvent Resistance	Methyl ethyl ketone (MEK)	
Dry Time (s)	20 s	View 

Notes: Dry time will depend on ambient temperature, humidity and coverage applied.

Typical Uncured Physical Properties

Property	Values	Additional Information
Base	Nitrile	

Typical Performance Characteristics

Property	Values	Additional Information
Friability	Easily crumbled when the surface to which it is applied is flexed or twisted.	

Typical Performance Characteristics	<ul style="list-style-type: none"> • Drying Time: A 1/8" layer of 3M™ Scotch-Seal Tamper Proof Sealant 1252 is tack-free in 20 seconds and suitable for stamping with ink. • Hardness: After 24 hours @ 77°F (25°C), 50% R.H., has a Shore A hardness of 97-99. • Friability: Easily crumbled when the surface to which it is applied is flexed or twisted. • Flammability: Dry film of the sealant is fire retardant and flames will extinguish themselves within 15 seconds. • Dielectric Strength: 100 volts/mil, minimum, Fed. Standard #406, Method 4031. • Surface Resistivity: 1010 ohms, minimum, Fed. Standard #406, Method 4041. • Volume Resistivity: 1010 ohms-cm, minimum, Fed. Standard #406, Method 4041. • Heat Resistance: Dried for 24 hours @ 77°F (25°C) 50% R.H., withstands 200°F (93.3°C) for 72 hours without loss of adhesion or sagging. • Fluid Resistance: Cured 24 hours @ 77°F (25°C) 50% R.H. was immersed in the following fluids: MIL-L-7808 Oil Moderate softening; good adhesion Aviation Gas (115/145) Slight softening; good adhesion 3% Salt Water No effect Tap Water No effect JP-4 Fuel Slight softening; good adhesion • Adhesion Overlap (Shear Strength) Aluminum (Alclad) Steel Average of 6 173 psi 164 psi 1" x 11/2" overlap – 10 mil thick bond line. Specimens were cured for 24 hours @ 77°F (25°C). • Overlap Shear: 1" x 11/2" – 10 mil thick films cured 24 hours @ 77°F (25°C). • Corrosion: After 72 hours @ 77°F (25°C) there is no evidence of corrosion on steel, aluminum, brass or silver. • Low Temp. Shock: Dried films 1/16" thick withstand 3 foot-lbs. shock at -20°F (-29°C) without loss of adhesion. 	
-------------------------------------	--	--

Storage and Shelf Life

Store at 60-80°F (16-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower temperatures cause increased viscosity of a temporary nature.

Tubes must be stored in an inverted position (tips down). Rotate stock on a “first in-first-out” basis.

When stored in the original unopened container, under the conditions recommended, this product has a shelf life of 12 months from date of manufacture.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Bottom Matter

3M
Industrial Adhesives and Tapes Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550

Trademarks

3M, Scotch-Seal and Scotch-Grip are trademarks of 3M Company.

Handling/Application Information

Directions for Use

Application: One-part, air drying compound suitable for hand extruding from a collapsible metal tube. Surfaces must be clean, dry and dust free.

Cleanup: Excess sealant may be removed from application equipment with a solvent such as 3M™ Scotch-Grip™ Solvent No. 3 or methyl ethyl ketone (MEK).*

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

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40067209/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=1252

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Information

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, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.