Advantages

- 3M™ Scotch-Seal™ Tamper Proof Sealant 1252 is a one-part, fast drying, anti-tamper sealer.
- Self-extinguishing.
- It can be applied over adjustable or removable parts to indicate changes in position. A break in the seal indicates tampering or movement.
- Scotch-Seal 1252 is used in the electronics industry to protect settings and calibrations of hydraulic, pneumatic, and electronic equipment against tampering. Scotch-Seal 1252 is also used to seal components between stages of assembly and parts which are restricted to adjustment, alteration, or access by qualified personnel.
- Will not support fungus growth.
- Exposed surfaces of Scotch-Seal 1252 will accept ink from an inspector’s approval stamp within 20 seconds of application.
- Commonly used by aircraft industry to indicate sabotage, tampering, alteration or vibration loosening.

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>500-2500 poise</td>
</tr>
<tr>
<td>Brookfield Viscometer</td>
<td>RVF #6 Spindle @ 4 rpm @ 77°F (26°C)</td>
</tr>
<tr>
<td>Solids (by weight)</td>
<td>61-73%</td>
</tr>
<tr>
<td>Base</td>
<td>Nitrile-Phenolic</td>
</tr>
<tr>
<td>Colors Available (wet and dry)</td>
<td>White, Blue, Red, Orange, Green, Gray, Pink, Yellow</td>
</tr>
<tr>
<td>Net Weight</td>
<td>12.3-13.3 lbs/gal</td>
</tr>
<tr>
<td>Flash Point (closed cup)</td>
<td>20°F (-4°C)</td>
</tr>
</tbody>
</table>

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.
Scotch-Seal™
Tamper Proof Sealant
1252

Handling/Application

**Application:** Scotch-Seal 1252 is a one-part, air drying compound suitable for hand extruding. Surfaces must be clean, dry and dust free.

**Cleanup:** Excess may be removed with a solvent such as 3M™ Scotch-Grip™ Solvent #3 or methyl ethyl ketone (MEK).*

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

Typical Performance Characteristics

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

- **Drying Time:** An 1/8" thick layer of Scotch-Seal 1252 will dry tack free in 20 seconds.

- **Hardness:** Shore A Hardness of 97-99 after drying for 24 hours @ 77°F (25°C)/50% relative humidity.

- **Friability:** Scotch-Seal 1252 will easily crumble when flexed or twisted.

- **Flammability:** Dry film of Scotch-Seal 1252 is self-extinguishing and flame will self-extinguish within 15 seconds.

- **Dielectric Strength (minimum):** 100 volts/mil (Fed. Standard #406, Method 4031).

- **Surface Resistivity (minimum):** 10^10 ohms (Fed. Standard #406, Method 4041).

- **Volume Resistivity (minimum):** 10^10 ohms-cm (Fed. Standard #406 Method 4041).

- **Heat Resistance:** 1252 Sealant dried for 24 hours @ 77°F (25°C)/50% relative humidity will withstand 200°F (93.3°C) for 72 hours without loss of adhesion or sagging.

- **Fluid Resistance:** Scotch-Seal 1252 was cured 24 hours @ 77°F (25°C)/50% R.H. and then immersed in the following fluids:
  - Pure Oxygen: No effect
  - 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
  - Skydrol® Splash: Slight softening; good adhesion

- **Adhesion Overlap (Shear Strength):**
  - Aluminum (Aclad) Average of 6
  - Steel 173 psi 164 psi
  - 1" x 1/2" overlap – 10 mil thick bond line. Specimens were cured for 24 hours @ 77°F (25°C).

- **Corrosion:** After 72 hours @ 77°F (25°C) there was 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 or adhesion.
**Scotch-Seal™ Tamper Proof Sealant 1252**

**Storage and Handling**

**Storage:** Store product at 40°F (4°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower storage temperatures temporarily increase viscosity.

- Rotate stock on a “first in-first out” basis.
- Tubes must be stored tips down.

**Shelf Life:** 3M Standard shelf life of Scotch-Seal 1252 is 12 months from date of shipment from 3M when stored @ 40°F (4°C) or below. 3M Standard shelf life of Scotch-Seal 1252 is 9 months from date of shipment from 3M when stored @ 60-80°C (16-27°C).

**Note:**

3M Scotch-Seal 1252 is identical to 3M EC-1252 in chemical composition. EC-1252 has been labeled, packaged, tested, and certified for aircraft and aerospace application. Scotch-Seal 1252 may be used for aircraft and aerospace application if proper Certificates of Test have been issued and material meets all specification requirements.
### Precautionary Information

See 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. Our fax number is (417) 869-5219. Address correspondence to: 3M Aerospace Central, 3211 E. Chestnut Expressway, Springfield, MO 65802.

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