

# AEROSPACE MATERIAL SPECIFICATION

AMS-S-8802™

REV. F

Issued 1999-05  
Revised 2022-10

Superseding AMS-S-8802E

Sealing Compound, Fuel-Resistant,  
Integral Fuel Tanks and Fuel Cell Cavities

## RATIONALE

Five-Year Review. Changed term "standard cure time" to "cure time to hardness." Added additional informational clarifications.

### 1. SCOPE

#### 1.1 Form

This specification covers fuel-resistant, two-component polysulfide synthetic rubber compounds which cure at room temperature.

#### 1.2 Application

This sealing compound has been used typically for sealing and repairing integral fuel tanks, cabin pressure sealing, and aerodynamic smoothing, but usage is not limited to such applications. It may be used for laying surface sealing, for wet installation of fasteners, for overcoating fasteners, and for sealing joints and seams. The sealing compound can be used in fuel areas as well as in non-fuel areas. It may, in some cases, be used as a non-structural adhesive. The sealant is capable of continuous service use from -65 to +250 °F (-54 to 121 °C). AMS3100 adhesion promoter may be applied prior to application of the sealant.

### 1.3 Classification

#### 1.3.1 Types

Sealing compounds covered by this specification are classified as follows:

- Type 1 - Dichromate Cured Sealant. Material with a dichromate curing agent.
- Type 2 - Manganese Dioxide Cured Sealant. Material with a manganese dioxide curing agent.

#### 1.3.2 Classes

The following classes apply to both Type 1 and Type 2 sealing compounds:

Class A - Suitable for application by brush. Available in the following application times, in hours:

- A-1/2
- A-1
- A-2

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# Aerospace Ams S 8802 Rev D Material Specification

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