



# AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096

AMS 3571/8

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Revised

POLYURETHANE CASTING RESIN, FLEXIBLE, SOLID  
Polyether-Type  
Durometer Hardness 65 "D"

1. SCOPE:

- 1.1 Form: This specification covers one type of polyether-type urethane resin and hardener which, when mixed and cured, produce elastomeric polyurethane products.
- 1.2 Application: Primarily for liquid application as electronic encapsulation or for casting parts and shapes.
- 1.3 Classification: Durometer 65 "D".

2. APPLICABLE DOCUMENTS: Shall be as shown in AMS 3571.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the product described herein shall consist of this document and the latest issue of the basic specification, AMS 3571.
- 3.2 Material: Shall be as specified in AMS 3571.
- 3.3 Properties of Cured Product: The material, when mixed and cured in accordance with the manufacturer's instructions, shall conform to the following requirements, determined in accordance with test methods listed in AMS 3571:
 

3.3.1 Hardness, Durometer "D" or equiv.	65 ± 5
3.3.2 Tensile Strength, min	4500 psi (31.0 MPa)
3.3.3 Elongation, min	250%
3.3.4 Tensile Stress at 100% Elongation, min	2000 psi (13.8 MPa)
3.3.5 Compression Set, Method B, after 22 hr ± 0.5 at 70°C ± 2 (158°F ± 3.6), max	55%
3.3.6 Tear Strength, min	350 lb per in. (61.3 kN/m)
3.3.7 Bond Strength to Metal, Shear Test, min	1000 psi (6.90 MPa)

4. QUALITY ASSURANCE PROVISIONS: See AMS 3571.

5. PREPARATION FOR DELIVERY: See AMS 3571.

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