SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
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AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

AMS 3904/12

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ROVING, ORGANIC FIBER (PARA-ARAMID)
Intermediate Modulus
9000 Denier, 7.0% Finish
For Cable and Cordage

1. SCOPE:

1.1 Form: This specification covers one type of organic fiber in the form of roving. The product shall be formed as a number of ends, tows, or strands collected into a parallel bundle with little or no twist.

1.2 Classification: Organic fiber 9000 denier roving with 350,000 psi (2413 MPa) tensile strength and 8,500,000 psi (59 GPa) tensile modulus and a high lubricity finish for use in cables and cordage requiring high tensile strength and moderate modulus of elasticity in tension. This shall be a 6 end roving.

2. APPLICABLE DOCUMENTS: See AMS 3904.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring organic fiber roving described herein shall consist of this document and the latest issue of the basic specification, AMS 3904.

3.2 Properties: Lot values shall be as follows:

3.2.1	Tensile Strength, nominal	350,000 psi (2413 MPa)
3.2.2	Modulus of Elasticity, nominal	8,500,000 psi (59 GPa)
3.2.3	Denier	9000 ± 900
3.2.4	Fiber Finish, by weight	7.0% ± 2.5
3.2.5	Catenary, maximum	6 inches per 50 feet (10 mm/m)