

**SAE** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space®

400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

## AEROSPACE MATERIAL SPECIFICATION

AMS 3904/11

Issued 4-1-89

Submitted for recognition as an American National Standard

### ROVING, ORGANIC FIBER (PARA-ARAMID) Intermediate Modulus 15,000 Denier, 1.0% 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 15,000 denier roving with 350,000 psi (2413 MPa) tensile strength and 8,500,000 psi (59 GPa) tensile modulus for use in cables and cordage requiring high tensile strength and moderate modulus of elasticity in tension. This shall be a 10 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	15,000 ± 1500
3.2.4 Fiber Finish, by weight	1.0% ± 0.6
3.2.5 Catenary, maximum	6 inches per 50 feet (10 mm/m)

SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

AMS documents are protected under United States and international copyright laws. Reproduction of these documents by any means is strictly prohibited without the written consent of the publisher.