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AEROSPACE MATERIAL SPECIFICATION

AMS 3904/12

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Submitted for recognition as an American National Standard

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) |

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