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**AEROSPACE  
MATERIAL  
SPECIFICATION**

AMS 3904/7

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Submitted for recognition as an American National Standard

YARN, ORGANIC FIBER (PARA-ARAMID)  
Intermediate Modulus  
1500 Denier, Zero Finish  
For Cable and Cordage

1. SCOPE:

- 1.1 Form: This specification covers one type of organic fiber in the form of yarn. The product shall be formed as a multiplicity of filaments drawn together and gathered into an approximately parallel arrangement.
- 1.2 Classification: Organic fiber 1500 denier yarn with 390,000 psi (2689 MPa) tensile strength and 8,500,000 psi (59 GPa) tensile modulus with no finish for use in cables and cordage requiring high tensile strength and moderate modulus of elasticity in tension.

2. APPLICABLE DOCUMENTS: See AMS 3904.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring organic yarn described herein shall consist of this document and the latest issue of the basic specification, AMS 3904.
- 3.2 Properties: Shall be as follows; no individual value shall be less than 90% of the lot minimum values specified in 3.2.1 and 3.2.2:
- |                                      |   |
|--------------------------------------|---|
| 3.2.1 Tensile Strength, minimum      | 390,000 psi (2689 MPa)  |
| 3.2.2 Modulus of Elasticity, minimum | 8,500,000 psi (59 GPa)  |
| 3.2.3 Denier                         | 1500 ± 150  |
| 3.2.4 Fiber Finish, by weight        | Zero  |
| 3.2.5 Fiber Density                  | 0.052 pound/cubic inch ± 0.001<br>(1.44 g/cm <sup>3</sup> ± 0.03) |

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