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AEROSPACE MATERIAL SPECIFICATION

SAE

AMS 3901/11A

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Superseding AMS 3901/11

Submitted for recognition as an American National Standard

YARN, ORGANIC FIBER (PARA-ARAMID), HIGH MODULUS
OY 390 (2689)/22.2 Tensile Strength, 16.5 (114)/870 Tensile Modulus
1420 Denier, 1.2% Finish

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 1420 denier yarn with 390 ksi (2689 MPa) or 22.2 g/d tensile strength and 16.5 Msi (114 GPa) or 870 g/d tensile modulus for use in weaving requiring high tensile strength and high modulus of elasticity in tension.

2. APPLICABLE DOCUMENTS:

See AMS 3901.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification:

The complete requirements for procuring the organic yarn described herein shall consist of this document and the latest issue of the basic specification.

3.2 Properties:

Shall be as shown in Table 1; no individual package, based on the average of three determinations, shall have less than 90% of the lot minimum values specified in 3.2.1 and 3.2.2.

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