

# AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

Issued APR 1978  
Revised MAR 1999

Superseding AMS 3904/5A

(R) Yarn, Organic Fiber (Para-Aramid)  
Intermediate Modulus  
1500 Denier (1670 Dtex), 0.9% Finish

## 1. SCOPE:

### 1.1 Form:

This specification covers one type of organic (para-aramid) 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 (1670 dtex) yarn with 22.8 gpd (201.2 cN/tex) nominal tensile strength and 585 gpd (5165 cN/tex) nominal tensile modulus 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:

SAE Technical Standards 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."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright 1999 Society of Automotive Engineers, Inc.  
All rights reserved.

Printed in U.S.A.

QUESTIONS REGARDING THIS DOCUMENT:  
TO PLACE A DOCUMENT ORDER:

(724) 772-7154  
(724) 776-4970

FAX: (724) 776-0243  
FAX: (724) 776-0790