AEROSPACE MATERIAL SPECIFICATION

AMS3894™/12 | **REV. B**

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Superseding AMS3894/12A

Carbon Fiber Tape and Sheet
Epoxy Resin Impregnated
G 200000 (1379) Tensile, 18000000 (124) Modulus, 120 (248)

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

1.1 Form: This specification covers one type of epoxy-resin-impregnated carbon fibers in the form of tape and sheet.

1.2 Application: Primarily for use in structural composites requiring high tensile strength up to 120°C (248°F).

1.3 Classification: G 200,000 psi (1379 MPa) tensile strength, 18,000,000 psi (124 GPa) tensile modulus carbon fiber impregnated with epoxy resin for service up to 120°C (248°F).

2. APPLICABLE DOCUMENTS: See AMS 3894.

3.1 TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the product described herein shall consist of this document and the latest issue of the basic specification, AMS 3894.

3.2 Material: The product shall be AMS 3892/1 high tensile strength carbon fibers impregnated with epoxy resin formulated to meet the requirements specified herein.

3.2.1 Storage Life: The product shall meet the requirements of this specification when tested at any time up to 6 months from date of receipt by purchaser provided it has been stored in the original unopened containers at not higher than -18°C (0°F).

3.2.2 Working Life: The product shall meet the requirements of this specification when tested after continuous exposure for up to 20 days within the relative humidity and temperature limits shown in Fig. 1.

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