AEROSPACE MATERIAL SPECIFICATION

AMS3894™/8 | **REV. C**

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Superseding AMS3894/8B

Carbon Fiber Tape and Sheet
Epoxy Resin Impregnated
G 70000 (483) Tensile, 36000000 (248) Modulus, 80 (176)

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 modulus up to 880°C (176°F).

1.3 Classification: G 70,000 psi (483 MPa) tensile strength, 36,000,000 psi (248 GPa) tensile modulus carbon fiber impregnated with epoxy resin for service up to 80°C (176°F).

2. APPLICABLE DOCUMENTS: See AMS 3894.

3. 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 3892/5 very high modulus 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 six 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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