



AEROSPACE MATERIAL SPECIFICATION

AMS3970™**REV. A**

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Superseding AMS3970

(R) Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing
Part 0 - Introduction

RATIONALE

AMS3970A has been reaffirmed to comply with the SAE five-year review policy.

FOREWORD

This Technical Specification is prepared by the Air Transport Association/International Air Transport Association/SAE International (ATA/IATA/SAE) Commercial Aircraft Composite Repair Committee - Repair Material Task Group (CACRC-RMTG). The purpose of this specification is to obtain a common technical specification for 120 °C (250 °F) vacuum curing repair prepreg for carbon fiber reinforced epoxy structures conforming to the requirements of the Original Equipment Manufacturers (OEM).

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Documents
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1. SCOPE

This document (Technical Specification) gives information about qualification rules and the relation between the different specification parts involved, such as the Technical Specification (TS), Material Specification (MS), and Purchasing Specification (PS). The link to the material qualification and qualified products is presented.

1.1 Field of Application

This document is only applicable to epoxy or modified epoxy resin prepreg systems used for repair of carbon fiber composite structures and companion non-structural glass fiber prepreg. Generally, an epoxy or modified epoxy resin film adhesive will be part of the prepreg system for co-cure bonding applications.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS3970/1	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 1 - General Requirements
AMS3970/2	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 2 - Qualification Program for Fiber, Fabric, Carbon Prepreg, Film Adhesive and Non-Structural Glass Prepreg
AMS3970/3	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 3 - Purchasing Specification for Carbon Prepreg
AMS3970/4	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 4 - Purchasing Specification for Film Adhesive
AMS3970/5	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 5 - Purchasing Specification for Companion Non-Structural Glass Fiber Fabric Prepreg
AMS3970/6	Carbon Fiber Fabric Repair Prepreg, 120 °C (250 °F) Vacuum Curing - Part 6 - Carbon Fiber Fabric Reinforced Epoxy Prepreg for Repair, Plain Weave, 193 gm/m ² , Adhesive Film for Repair, Non-Structural Glass Fiber fabric Reinforced Epoxy Prepreg, 105 gm/m ²

2.2 ISO Publications

Available from International Organization for Standardization, 1 rue de Varembe, Case postale 56, CH-1211 Geneva 20, Switzerland, Tel: +41-22-749-01-11, www.iso.org.

ISO 9000	Quality Management Systems - Fundamentals and Vocabulary
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