



AEROSPACE MATERIAL SPECIFICATION

AMS6885™

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Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing Part 0 - Introduction

RATIONALE

Provide a unidirectional carbon fiber tape epoxy repair prepreg capable of curing under vacuum for repair of carbon fiber reinforced epoxy structures. The repair system includes a film adhesive to be applied in a co-bonding process with the prepreg for solid laminate and sandwich bonding. The AMS also includes the Purchasing Specifications for the carbon prepreg and the film adhesive as part of the Technical Specification System ([Figure 1](#)).

AMS6885 has been reaffirmed to comply with the SAE Five-Year Review policy.

A reaffirmed status is given to technical reports that have been reviewed by the technical committee and deemed to be current with no need for immediate revision. No changes have been made to this document as a result of this review.

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 Materials Task Group (CACRC-RMTG). The purpose of this specification is to obtain a common technical specification for a vacuum curing repair tape prepreg for carbon fiber reinforced epoxy structures conforming to the requirements of the Original Equipment Manufacturers (OEMs).

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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), the Material Specification (MS), and the Purchasing Specifications (PS).

1.1 Field of Application

This document is only applicable to epoxy or modified epoxy unidirectional carbon fiber tape prepreg used for repair of carbon fiber composite structures. An epoxy or modified epoxy resin film adhesive is part of the repair system for co-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 +1 724-776-4970 (outside USA), www.sae.org.

AMS6885/1	Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing, Part 1 - General Requirements
AMS6885/2	Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing, Part 2 - Qualification Program for Fiber, Carbon Fiber Tape Prepreg, and Film Adhesive
AMS6885/3	Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing, Part 3 - Purchasing Specification for Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg
AMS6885/4	Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing, Part 4 - Purchasing Specification for Film Adhesive
AMS6885/5	Unidirectional Carbon Fiber Tape Epoxy Repair Prepreg, Vacuum Curing, Part 5 - Material Specification for Unidirectional Carbon Fiber Tape Epoxy Prepreg for Repair and Film Adhesive for Repair, 120 to 145 °C (250 to 290 °F) Curing

2.2 ISO Publications

Available from International Organization for Standardization, ISO Central Secretariat, 1, ch. de la Voie-Creuse, CP 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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2.3 PRI Publications

Available from Performance Review Institute, 161 Thorn Hill Road, Warrendale, PA 15086-7527, Tel: 724-772-1616, www.pri-network.org.

PD 2000	Governance and Administration of an Industry Managed Product Qualification Program
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PD 2001	Manufacturer Request for Product Approval and Qualification Process
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PRI-QPL-AMS6885	Performance Review Institute - Qualified Products List of AMS6885
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Individual Product Sheets (IPS) of Qualified Products, Appendix to PRI-QPL-AMS6885