

SUPERSEDED

can.



400 COMMONWEALTH DRIVE WARRENDALE PA 15096

AEROSPACE MATERIAL SPECIFICATION

AMS 3825

Issued 6-15-53
Revised 1-1-82

FABRIC, GLASS (181) (CHROME TREATED)

This specification was declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 2-1-56. It was recommended that this specification not be specified for new designs.

This cover sheet should be attached to the initial issue of the subject specification.

.....

This specification is declared "CANCELLED" by the Aerospace Materials Division, SAE, as of 1-1-82. By this action, subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications.

This fabric style is no longer manufactured. See the latest issue of AMS 3824 for other glass cloth styles.

This specification is under the jurisdiction of AMS Committee "C".

SAE Technical Board rules provide that "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade or their use by governmental agencies is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE WARRENDALE PA 15096

AMS 3825

Issued 6-15-53

Rvised

FABRIC, GLASS (181) (CHROME TREATED)

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily as a reinforcing material for plastic laminates.
3. TECHNICAL REQUIREMENTS:
 - 3.1 General:
 - 3.1.1 Color: The material shall be uniformly white with a very faint green cast permissible. There shall be no green streaks.
 - 3.1.2 Treatment: The material shall have been treated in such a manner as to remove the lubricating materials or binders, followed by a chromium salt treatment. The chrome treatment shall aid in wetting the fabric with a polyester resin and shall provide an intermediate chemical bond between the fabric and a polyester type resin when the fabric is used for reinforcing plastic laminates.
 - 3.1.3 Yarn: The material shall be woven from ECE225-1/3 yarn.
 - 3.1.4 Weave: The weave shall be an eight shaft, satin weave in which each warp and fill yarn goes under one, and over seven, then under one, etc., The interweaving of the warp and fill yarns shall be staggered, i.e., the No. 1 warp yarn shall go under the No. 1, No. 9, No. 17, etc., fill yarn, and the No. 2 warp yarn shall go under the No. 2, No. 10, No. 18, etc., fill yarn, etc.
 - 3.2 Properties: The product shall conform to the following requirements; tests shall be performed on the product supplied and in accordance with listed methods, insofar as practicable.

3.2.1 Weight, oz per sq yd	8.0 to 9.8	ASTM D579-49
3.2.2 Thread Count, ends per in.		
Warp	55 to 59	ASTM D579-49
Fill	52 to 56	
3.2.3 Flexural Strength (Flatwise)		
Dry, psi, min	45,000	
Wet, (2 hr boil), psi, min	30,000	See 3.2.3.1