

MIL-C-44050A

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SUPERSEDING

MIL-C-44050

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MILITARY SPECIFICATION  
CLOTH, BALLISTIC, ARAMID

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This document covers untreated and water-repellent treated aramid ballistic cloth.

1.2 Classification. The aramid ballistic cloth shall be of the following types and classes as specified (see 6.2):

Type I - 8.25 oz/sq. yd. (fragmentation protection)  
Type IA - 8.25 oz/sq. yd. (bullet protection)  
Type II - 14.0 oz/sq. yd.  
Class 1 - Untreated  
Class 2 - Water-repellent treated

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Documents. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

Beneficial comments (recommendations, additions and deletions) and any pertinent data which may be used in improving this document should be addressed to U.S. Army Natick Research, Development and Engineering Center, Natick, MA 01760-5014, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

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TABLE I. Physical requirements

Characteristics	Requirements			
	Types I and IA		Type II	
	min.	max.	* <span style="border: 1px solid black; padding: 2px;">min.</span>	max.
Weight per sq. yard ounces	8.0	8.5	13.5	14.5
Yarns per inch:				
Warp	30	---	* 35	---
Filling	30	---	* 35	---
Yarn breaking strength pound $\frac{1}{2}$ :				
Warp	30	---	55	---
Filling	30	---	55	---
Water repellency (class 2), dynamic absorption (% increase).				
Initial	---	15	---	15
After one laundering	---	15	---	15

1/ Test specimen shall be taken from finished fabric.

3.4 Width. The minimum acceptable width shall be as specified (see 6.2) and shall be inclusive of the woven selvage when fly shuttle looms are used and exclusive of the lock-in selvage when shuttleless looms are used.

3.5 Weave.

3.5.1 Types I and IA. The weave shall be plain.

3.5.2 Type II. The weave shall be a 2 by 2 basket.

3.6 Finish.

3.6.1 Class 1. The cloth shall be scoured open width and dried following guidelines supplied by the fiber producer.