

## MILITARY STANDARD

FUZE EXPLOSIVE COMPONENT TERMINOLOGY  
DIMENSIONS AND MATERIALS

TO ALL HOLDERS OF MIL-STD-320A:

1. The following pages of MIL-STD-320A have been revised and supersede the pages listed:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
1	30 June 1975	1	REPRINTED WITHOUT CHANGE
2	16 November 1987	2	30 June 1975
15	30 June 1975	15	REPRINTED WITHOUT CHANGE
16	16 November 1987	16	30 June 1975

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-320A will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

## Custodians:

Army - AR  
Navy - OS  
Air Force - 99

## Preparing Activity:

Army - AR  
(Project 1390-0591)

## Review Activities:

Army - EA  
Navy - AS  
Air Force - 11, 18, 70

AMSC N/A

FSC 1390

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-STD-320A  
30 June 1975

## 1. Scope

1.1 Scope. This standard establishes terminology, external and internal dimensions, and preferred structural materials and color identification for explosive components for use in fuzes.

1.2 Application. This standard is applicable to explosive components used in rocket, guided missile, bomb and projectile fuzes, and other fuzes where pertinent. The explosive components considered are primers, detonators, delays, relays and leads.

MIL-STD-320A  
16 November 1987

## 2. Referenced Documents

2.1 The following documents of the issue in effect on the date of initiators for bids or request for proposal, form a part of this standard to the extent specified herein.

### SPECIFICATIONS

#### FEDERAL

QQ-A-250/1	Aluminum 1100, plate & sheet
QQ-A-250/2	Aluminum Alloy 3003, plate & sheet
QQ-A-250/8	Aluminum 5052, plate & sheet
QQ-A-225/5	Aluminum Alloy, Bars, Rods & Wire (Rolled or Drawn) 2017

#### MILITARY

MIL-S-5059	Steel, Corrosion-Resistant plate, sheet and strip
MIL-I-23011	Kovar - Iron Nickel Alloys for sealing to glass and ceramics

### STANDARDS

#### MILITARY

ANSI-114.5	Y14.5 Dimensioning and Tolerancing
ANSI-46.1	B46.1 Surface Roughness, Waviness, and Lay

## 2.2 Other Publications

Picatinny Arsenal Technical Report

No. 1783 Effects of Materials on the Properties of Explosives,  
dated November 1950, 2 volumes, Confidential

Naval Ordnance Laboratory Report

No. 1111 Ordnance Explosive Train Designers Handbook

Military Handbook 777, "Fuze Catalog Procurement Standard and Development  
Fuze Explosive Components" - Limited Distribution

Supersedes page 2 of MIL-STD-320A

MIL-STD-320A  
30 June 1975TABLE VI. Color Identification of Finished Primers, Detonators, Delays  
and Relays (See 5.4)

Component	Sensitive End	Output End	Spec.
Percussion Primers	Red	Green	MIL-L-10287
Stab Primers	Red	Green	MIL-L-10287
Stab Detonators	Red	Green	"
Percussion Delays	Red	Green	"
Stab Delays	Red	Green	MIL-L-10287
Flash Detonators	Red	Yellow	MIL-L-10287
Flash Relays	Red	Yellow	
Flash Delays	Red	Yellow	
Leads	Blue	Green	
Inert	Black	--	
Red	= either No. 11136 or 11105		
Green	= No. 14110		
Blue	= No. 15102		
Yellow	= No. 13655		
Black	= No. 17038		

MIL-STD-320A  
16 November 1987

6. Notes

The following reports may be helpful in determining dimensions and materials for explosive components:

- (a) Military Handbook 777, "Fuze Catalog Procurement Standard and Development Fuze Explosive Components" - Limited Distribution
- (b) Sandia Report SC-M-70-355 Aug 1970 "Compatibility of Explosives with Structural Materials of Interest" R.J. Buxton & T.M. Massis

Custodian:

Army - AR  
Navy - OS  
Air Force - 99

Preparing Activity:

Army - AR  
Project Number: 1390-0169

Review Activity:

Army - EA  
Navy - AS, OS  
Air Force - 11, 18, 70

Supersedes page 16 of MIL-STD-320A

**INSTRUCTIONS:** In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

**NOTE:** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

(Fold along this line)

(Fold along this line)

DEPARTMENT OF THE ARMY



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

**BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 12062 WASHINGTON D. C.

POSTAGE WILL BE PAID BY THE DEPARTMENT OF THE ARMY

Commander  
USArmy Armament Research ,development  
and Engineering Center  
Attn: SMCAR-ESC-S  
dover, NJ 07806-5000



**STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL***(See Instructions - Reverse Side)*

<b>1. DOCUMENT NUMBER</b>	<b>2. DOCUMENT TITLE</b>		
<b>3a. NAME OF SUBMITTING ORGANIZATION</b>		<b>4. TYPE OF ORGANIZATION (Mark one)</b>	
<b>b. ADDRESS (Street, City, State, ZIP Code)</b>		<input type="checkbox"/> <b>VENDOR</b>	
		<input type="checkbox"/> <b>USER</b>	
		<input type="checkbox"/> <b>MANUFACTURER</b>	
		<input type="checkbox"/> <b>OTHER (Specify):</b> _____	
<b>5. PROBLEM AREAS</b>			
<b>a. Paragraph Number and Wording:</b>			
<b>b. Recommended Wording:</b>			
<b>c. Reason/Rationale for Recommendation:</b>			
<b>6. REMARKS</b>			
<b>7a. NAME OF SUBMITTER (Last, First, MI) - Optional</b>		<b>b. WORK TELEPHONE NUMBER (Include Area Code) - Optional</b>	
<b>c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional</b>		<b>8. DATE OF SUBMISSION (YYMMDD)</b>	