

INCH-POUND

MIL-PRF-70600A(AR)
19 OCTOBER 1998
SUPERSEDING
MIL-C-70600(AR)
05 FEBRUARY 1996

PERFORMANCE SPECIFICATION

CARTRIDGE, RIMFIRE, .22 CALIBER

This specification is approved for use by the U.S. Army Armament Research, Development and Engineering Center, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers .22 caliber cartridges for use in .22 caliber weapons (see 6.1).

1.2 Classification. The following items are covered by this specification:

Type I - Cartridge, Caliber .22, Standard Velocity for Rifle
Type II - Cartridge, Caliber .22, High Velocity for Rifle
Type III - Cartridge, Caliber .22, Match Grade for Rifle
Type IV - Cartridge, Caliber .22, Match Grade for Pistol

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are referenced in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or documents that are recommended for additional information or examples. While every effort has been made to ensure the completeness of this list, document users are cautioned they must meet all requirements as cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards and handbooks form a part of this specification to the extent specified herein. Unless otherwise specified, the issues are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document, should be addressed to: Commander, U.S. Army TACOM-ARDEC, ATTN: AMSTA-AR-QAD, Picatinny Arsenal, New Jersey 07806-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 1305

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

MIL-PRF-70600A(AR)**STANDARDS****DEPARTMENT OF DEFENSE**

MIL-STD-286	Propellants, Solid: Sampling, Examination & Testing
MIL-STD-636	Visual Standards for Small Arms Ammunition through Caliber .50
MIL-STD-1168	Ammunition Lot Numbering
MIL-STD-1916	DoD Preferred Methods for Acceptance of Products

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Standardization Documents Order Desk, 700 Robbins Avenue, Bldg. 4D, Philadelphia, PA 19111-5094.)

2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

SPORTING ARMS & AMMUNITION MANUFACTURER'S INSTITUTE**SAAMI****Technical Committee Manual Vol. I Rimfire**

(Copies of SAAMI manuals are available from Secretary, Sporting Arms & Ammunition Manufacturer's Institute, PO Box 838, Branford, CT 06405.)

AMERICAN NATIONAL STANDARDS INSTITUTE**ANSI/SAAMI Z299.2-1992**

Voluntary Industry Performance Standards for
Pressure and Velocity of Rimfire Sporting
Ammunition for the Use of Commercial
Manufacturers

(Copies of ANSI Standards are available from American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036)

UN ST/SG/AC.10/11

Recommendations on the Transport of Dangerous
Goods, Tests and Criteria

(Copies of UN ST/SG/AC.10/11 are available from United Nations Publications, New York, NY 10017)

2.4 Order of precedence. In the event of conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

MIL-PRF-70600A(AR)**3. REQUIREMENTS**

3.1 First article. When specified in the contract (see 6.2), a sample shall be subjected to first article inspection in accordance with 4.2.

3.2 Operating requirements.

3.2.1 Primed case sensitivity. The energy imparted by a steel ball weighing 1.94 ± 0.02 ounces falling 14 inches onto a test fixture firing pin shall cause initiation of the primed cartridge case. The energy imparted by a steel ball weighing 1.94 ± 0.02 ounces falling 1.5 inches onto a test fixture firing pin shall not cause initiation of the primed cartridge case.

3.2.2 Velocity. At a point 15.0 ± 0.5 ft. from the muzzle of a 24.000 ± 0.010 inch test barrel, the average velocity of bullets fired from cartridges that have been conditioned at 70 ± 10 °F for at least one hour shall meet the requirements shown in Table I.

3.2.3 Accuracy. The accuracy shall be defined as the extreme spread average that is the mean of the number of 10-shot targets used for the test. The extreme spread is defined as the distance between the centers of the two shot holes that are furthest apart for any given 10-shot target. The target ranges, barrel lengths to be used, and extreme spread average values for shot holes shall be in accordance with Table I.

Table I. Bullet velocity and accuracy requirements

TYPE	NOMENCLATURE	<u>VELOCITY</u> (FT/SEC)	<u>ACCURACY</u> Extreme Spread Average	ACCURACY RANGE / TEST BARREL LENGTH
I	Standard Velocity for Rifle	$1,135 \pm 90$	2.0 inches MAX	100 ± 0.33 Yards / 20 inch MIN
II	High Velocity for Rifle	$1,235 \pm 90$	3.0 inches MAX	100 ± 0.33 Yards / 20 inch MIN
III	Match Grade for Rifle	$1,100 \pm 90$	1.25 inches MAX	100 ± 0.33 Yards / 20 inch MIN
IV	Match Grade for Pistol	$1,135 \pm 90$	2.5 inches MAX	50 ± 0.33 Yards / 8 inch MAX

3.2.4 Chamber pressure. The maximum average chamber pressure shall not exceed 26,000 PSI when fired from a 24.000 ± 0.010 inch test barrel. The maximum individual chamber pressure shall not exceed 30,100 PSI. These pressures shall not be exceeded when firing cartridges that have been conditioned (as unpacked cartridges) for at least one hour at the following temperatures prior to firing:

- Ambient: 70 ± 10 degrees Fahrenheit.
- Hot: 125 ± 5 degrees Fahrenheit.
- Cold: -20 ± 5 degrees Fahrenheit.

3.2.5 Function and casualty. The cartridge shall function without casualty when conditioned at ambient temperature of 70 ± 10 degrees Fahrenheit for at least one hour.

3.2.6 Projectile integrity. The cartridge projectile or bullet shall not burst or fragment in the barrel or during its entire flight when fired.

MIL-PRF-70600A(AR)

3.3 Interface and interoperability requirements.

3.3.1 Cartridge physical parameters. The cartridge dimensions shall be as cited in ANSI/SAAMI Z299.1 for a .22 caliber Long Rifle cartridge.

3.3.2 Projectile weight. The projectile or bullet section of the cartridge shall weigh 40 grains \pm 2 percent.

3.3.3 Projectile lubrication. The projectile shall be lubricated to prevent material buildup in the barrels that would adversely affect performance or the cartridge's storage life.

3.4 Support and ownership.

3.4.1 Ammunition lot configuration. Each lot of ammunition shall be identified by type and lot number. Lot numbering/identification shall be in accordance with MIL-STD-1168.

3.4.2 Final hazard classification. The cartridge shall comply with the following Hazard Classification when packaged in commercial packaging or in accordance with packaging requirements in the contract.

DOD Hazard Class/Div: 1.4
DOD Hazard Compatibility Group: S
DOT Hazard Class: 1.4S
Net Explosive Weight: .00024 lbs.

3.4.3 Propellant stability. All propellants shall be stable over a minimum time period of 5 years.

3.4.4 Visual defects. Cartridges shall be free of dents, scratches and other imperfections which cause non-compliance with section 4.4.13 of this specification.

MIL-PRF-70600A(AR)**4. VERIFICATION.****TABLE II. Requirements / Verification Cross Reference Matrix****METHOD OF VERIFICATION**

N/A – Not Applicable

1 – Analysis

2 – Demonstration

3 – Examination

4 – Test

CLASS OF VERIFICATION

A – First Article Inspection

B – Conformance Verification

Section 3 Requirement	Verification Methods					Verification Class		Section 4 Method
	N/A	1	2	3	4	A	B	
3.1		X	X	X	X	X		4.2
3.2.1					X	X	X	4.4.1
3.2.2					X	X	X	4.4.2
3.2.3		X			X	X	X	4.4.3
3.2.4					X	X	X	4.4.4
3.2.5			X			X	X	4.4.5
3.2.6			X			X		4.4.6
3.3.1				X		X	X	4.4.7
3.3.2				X		X	X	4.4.8
3.3.3				X		X		4.4.9
3.4.1				X		X	X	4.4.10
3.4.2			X		X	X		4.4.11
3.4.3			X		X	X		4.4.12
3.4.4				X		X	X	4.4.13

4.1 Classification of verifications. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.2)
- b. Conformance verification (see 4.3)

4.1.1 Verification conditions. Unless otherwise specified, all inspections shall be performed in accordance with the test conditions specified in section 4.4.

4.2 First article inspection.

4.2.1 Sample. When specified in the contract, the contractor shall submit a first article sample of 4,000 rounds for evaluation in accordance with the schedule listed in Table III.

4.2.2 Inspections to be performed. The first article sample shall be subjected to all of the examinations and tests specified in Table II Requirement/Verification Cross Reference Matrix.

4.2.3 First article rejection. If any assembly, component or test specimen fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure of an assembly, component or test specimen to comply with any of the requirements.

MIL-PRF-70600A(AR)TABLE III – First article inspection

EXAMINATION OR TEST	CONFORMANCE CRITERIA		REQUIREMENT PARAGRAPH	INSPECTION METHOD
	SAMPLE	ACC- REJ 1/		
Examination for defects:	As specified in contract		3.1	Table V
Primed case sensitivity	150	Note 1	3.2.1	4.4.1
Velocity, ambient	50	Note 2	3.2.2	4.4.2
Accuracy	100	Note 3	3.2.3	4.4.3
Chamber Pressure, hot	50	Note 4	3.2.4	4.4.4
Chamber Pressure, cold	50	Note 4	3.2.4	4.4.4
Chamber Pressure, ambient	50	Note 4	3.2.4	4.4.4
Function and Casualty, ambient	1000	Note 5	3.2.5	4.4.5
Cartridge Physical Parameters	50		3.3.1	4.4.7
Projectile Integrity	50	Note 6	3.2.6	4.4.6
Projectile Weight	50	Note 7	3.3.2	4.4.8
Projectile Lubricant	20		3.3.3	4.4.9
Thermal Stability	45 gm	0 / 1	3.4.2	4.4.11
Propellant Stability	2.5 gm	0 / 1	3.4.3	4.4.12
Visual Defects	50		3.4.4	4.4.13

1/ See notes after Table IV.

4.3 Conformance verification. When specified in the contract, a sample of the .22 caliber Long Rifle cartridges shall be subjected to conformance verification in accordance with Table II, Requirements / Verification Cross-Reference Matrix.

4.3.1 Inspection lot formation. Lot formation shall be in accordance with the lot formation requirement of MIL-STD-1916, paragraph 4.2.2. Unless otherwise specified in the contract, the size of the ammunition lot shall be no more than 3,000,000 cartridges.

4.3.2 Examinations and tests.

a. Classification of characteristics. Conformance examinations and tests are specified in the following Classification of Characteristics paragraphs.

b. Conformance examination and tests are specified in Table IV. When cited herein, attributes sampling inspection shall be conducted in accordance with Tables IV and VI in this specification, using the attribute sampling plan of MIL-STD-1916, using verification level IV for Major characteristics and level III for Minor characteristics. One hundred percent inspection shall be used on all Critical characteristics.

4.3.3 Alternative conformance provisions. Unless otherwise specified herein or provided for in the contract, alternative conformance procedures, methods or equipment, such as statistical process control, tool control, or other types of sampling plans, may be used by the contractor when they provide, as a minimum, the level of quality assurance required by the provisions herein.

MIL-PRF-70600A(AR)TABLE IV – Conformance inspection

EXAMINATION OR TEST	CONFORMANCE CRITERIA		REQUIREMENT PARAGRAPH	INSPECTION METHOD
	SAMPLE	ACC-REJ		
Examination for defects:	As specified.		3.4.4	Table V
Primed case sensitivity	150	Note 1	3.2.1	4.4.1
Velocity, ambient	50	Note 2	3.2.2	4.4.2
Accuracy	100	Note 3	3.2.3	4.4.3
Chamber Pressure; hot, cold, ambient	50, 50, 50	Note 4	3.2.4	4.4.4
Function and Casualty, ambient	300	Note 5	3.2.5	4.4.5
Projectile integrity	50	Note 6	3.2.6	4.4.6
Projectile weight	50	Note 7	3.3.2	4.4.8

Notes:

1. The criteria for primed case sensitivity acceptance are contained in 4.4.1.
2. The average velocity of the sample cartridges shall comply with the requirement of Table I. If the requirement is not met, the lot is rejected.
3. The average extreme spread of the sample cartridges shall comply with the requirement of Table I. If the requirement is not met, the lot is rejected.
4. The average pressure of the sample cartridges, tested at hot, cold and ambient temperatures, shall comply with the requirement of 3.2.4. If the requirement is not met, the lot is rejected.
5. The criteria for function and casualty of the sample cartridges, tested at hot, cold and ambient temperatures, are contained in Table VI, Firing defects.
6. If any cartridge bursts or fragments, the lot is rejected.
7. The projectile weight of the sample shall comply with the requirement of 3.3.2. If the requirement is not met, the lot is rejected.

MIL-PRF-70600A(AR)TABLE V. Examination for defects

EXAMINATION OR TEST <u>1/</u>	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD
	SAMPLE ACC- REJ		
Critical: 1. Head or rim split	100%	3.4.4	Visual
Major: 101. Perforated or split case 102. Crooked projectile 103. Cartridge length, max 104. Rim thickness, max 105. Head diameter, max 106. Case diameter max, 107. Projectile diameter, max	Level IV <u>2/</u> Level IV Level IV Level IV Level IV Level IV Level IV	3.4.4 3.3.1 3.3.1 3.3.1 3.3.1 3.3.1 3.3.1	Visual Visual SME SME SME SME SME
Minor: 201. Visual defects 202. Improper lot number 203. Improper projectile lubricant	Level III Level III Level III	3.4.4 3.4.1 3.3.3	Visual Visual Visual

Notes:

1/ Refer to cartridge section of MIL-STD-636 for Visual Standards of defects.2/ Levels III and IV refer to those verification levels of Table II attributes sampling plan in MIL-STD-1916.TABLE VI– Firing defects

Class	Criteria <u>1/</u>
Critical: 1. Bullet in bore 2. Complete or partial rupture 3. Detached material (upon firing) 4. Burn through 5. Slamfire <u>2/</u> 6. Uncontrolled fire <u>3/</u> 7. Other critical <u>4/</u>	Acceptance Number 0 0 0 0 0 0 0
Major: 101. Split body or head 102. Gas leak at body/head interface 103. Misfire 104. Detached material (upon extraction)	1 1 1 1

MIL-PRF-70600A(AR)

Note: For defects 101, 102, 103, and 104 the cumulative acceptance number shall not exceed two. If the cumulative firing defects or individual firing defects exceed the acceptance number, the Function and Casualty test in Table V shall be performed again with a double sample. If the firing defects for the double sample meets the acceptance numbers for defects 1, 2, 3, 4, 5, 6, 7, 101, 102, 103, and 104, the lot is acceptable.

1/ This table shall be applied separately to the results of each weapon type at each temperature condition.

2/ A slamfire occurs when a round is unintentionally fired by manually closing the weapon bolt without depressing the trigger of the weapon.

3/ Uncontrolled fire for semi-automatic weapons refers to the firing of two or more rounds for a single trigger depression when the fault is due to the ammunition.

4/ Any other defect that is likely to result in hazardous or unsafe conditions.

4.4 Methods of inspection.

4.4.1 Primed case sensitivity verification. The sample of empty primed cartridge cases shall be tested in accordance with SAAMI Technical Committee Manual Vol. 1 Rimfire.

4.4.2 Velocity verification. The velocity test shall be tested in accordance with SAAMI Technical Committee Manual Vol. 1 Rimfire and ANSI/SAAMI Z299.1-1992 . Test barrel length shall be as specified in Table I.

4.4.3 Accuracy verification. The accuracy test shall be tested in accordance with SAAMI Technical Committee Manual Vol. 1 Rimfire. Test barrel length and range shall be as specified in Table I.

4.4.4 Chamber pressure verification. The chamber pressure test shall be tested in accordance with SAAMI Technical Committee Manual Vol. 1 Rimfire and ANSI/SAAMI Z299.1-1992 .

4.4.5 Function and casualty verification. All cartridges shall be fired in a ratio of 50 percent – 50 percent through two unaltered commercial weapons. For all cartridges except Match Grade cartridges, one weapon shall have a semiautomatic auto-loading action and one shall have a manually operated bolt action. Each weapon shall have a total chamber and magazine capacity of five cartridges minimum. Cartridges for Match Grade Rifle shall be fired from match grade rifles with manually operated bolt actions. Cartridges for Match Grade Pistol shall be fired from match grade pistol pistols, which have a semiautomatic autoloading action and a chamber and magazine capacity of five cartridges minimum. All weapons shall be loaded to capacity and the test performed.

4.4.6 Projectile integrity verification. Projectile integrity shall be tested concurrently with function and casualty. A witness screen of at least 4 feet by 4 feet shall be placed at 5 yards from the muzzle of the weapon, and examined for any evidence of bursting or fragmenting of projectiles.

MIL-PRF-70600A(AR)

4.4.7 Physical parameters verification. All of the cartridge dimensions shall be in accordance with those cited in ANSI/SAMMI Z299.2-1992 for 22 Long Rifle-Sporting or 22 Long Rifle-Match as required (see 6.2).

4.4.8 Projectile weight verification. Twenty projectiles shall be de-lubed and then individually weighed.

4.4.9 Projectile lubrication verification. The sample cartridges shall be visually examined for evidence of bullet lubrication.

4.4.10 Ammunition lot configuration verification. Visually verify that an ammunition lot number has been assigned to each lot of .22 caliber rimfire cartridges in accordance with MIL-STD-1168.

4.4.11 Final hazard classification verification. Compliance with the FHC requirements specified at paragraph 3.4.2 shall be validated during the First Article Test (FAT). FAT tests for Final Hazard Classification shall be in accordance with UN ST/SG/AC.10/11, Recommendations on the Transportation of Dangerous Goods, Tests and Criteria. The following test series shall be used: 4.a for thermal stability. Test results from prior in-house verifications of these tests are acceptable.

4.4.12 Propellant stability verification. Propellant stability tests shall be conducted in accordance with the test procedures listed below. Stability is demonstrated when results comply with the requirements listed below.

<u>Test</u>	<u>Reference Document</u>	<u>Test Procedure Description</u>	<u>Requirement</u>
Heat	MIL-STD-286	Method 404.1.2	For single base propellants - Methyl violet paper shall not change to salmon pink in less than 40 minutes, and the sample shall not explode in less than 5 hours at 134.5°C. For double base propellants - Methyl violet paper shall not change to salmon pink in less than 40 minutes, and no fumes given off less than 1 hour at 120°C.
Storage Degradation/ Surveillance	MIL-STD-286	Method 407.1	No fumes in less than 30 days of storage at 65.5°C.

4.4.13 Visual defects verification. All test cartridges shall be visually inspected for the defects listed in Table V. The criteria for grading defects shall be in accordance with MIL-STD-636.

MIL-PRF-70600A(AR)**5. PACKAGING.**

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. These cartridges are intended for use in US military .22 caliber rimfire weapons. The .22 Caliber Rimfire Long Rifle Cartridges procured to this specification are military unique because:

- a. They must contain non-corrosive primers and propellants which will not cause damage/degradation to our military weapons.
- b. They must meet the militaries propellant stability and shelf life storage requirements of 5 years, which exceeds commercial industries normal requirements.
- c. They are intended for use in military marksmanship training.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and, if required, the specific issue of individual documents referenced (see 2.2.1).
- c. Requirements for submission of first article.
- d. Requirement and provisions for submission of test data as required.
- e. Certificate of conformance for each lot of ammunition.
- f. Requirements for Ammunition Lot Numbering.
- g. Packaging requirements if other than specified in section 5.1 or as follows:

MIL-PRF-70600A(AR)

Packaging will be Level B for the following rounds:


TYPE	DODAC	NSN
I	A106	1305-01-257-2559
II	A107	1305-01-256-0324
III	A091	1305-01-255-9109
IV	A093	1305-01-257-1094

Cartridges will be unit packed in accordance with the manufacturer's best commercial practice in quantities of fifty (50) per fiberboard box. The packed cartridges will then be overpacked into a close fitting fiberboard box in accordance with the manufacturer's best commercial practice and closed such that the total cartridge quantity will be five hundred (500). The boxes containing five hundred cartridges will be overpacked by either Alternative 1, or Alternative 2.

Alternative 1. Ten of these boxes will be overpacked in accordance with the manufacturer's best commercial practice in a close fitting fiberboard box and closed such that the total cartridge quantity will be five thousand (5000). This box will be sealed in a Type I, Class E bag per MIL-B-117. The sealed bag will be overpacked in a close fitting fiberboard box conforming to ASTM D 5118 Class CF, Grade W5c and closed per Method 2A1 of ASTM D 1974.

Alternative 2. Ten of these boxes will be sealed in a Type I, Class E bag per MIL-B-117 such that the total cartridge quantity will be five thousand (5000). The sealed bag will be overpacked in a close fitting fiberboard box conforming to ASTM D 5118 Class CF, Grade W5c and closed per Method 2A1 of ASTM D 1974.

Unless otherwise specified, marking will be in accordance with MIL-STD-129. The required DOT marking will be: "Cartridges, Small Arms UN0012". The required UN marking for the Level B packaging is as follows:


 4G/Y20/S/*/
 USA/DOD/AYD

* Insert year packed

h. Information needed to satisfy requirements for qualification of the energetic materials (see 3.4.2).

6.3 Materials. Drawing 12551637 may be used as a reference for a design that has been qualified.

6.4 Reference documents. Reference documents are intended for information purposes only. They are not to be construed as requirements for any material, process or method of construction.

MIL-PRF-70600A(AR)

6.5 Submission of alternative conformance provisions. All contractor proposed alternative conformance provisions will be submitted to the Government for evaluation/approval as directed by the contracting activity.

6.6 Subject term (keyword) listing.

Pistol
Rifle

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1305-0197)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.

2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.

3. The preparing activity must provide a reply within 30 days from receipt of the form.

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

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-PRF-70600A	2. DOCUMENT DATE (YYYYMMDD) 19 OCTOBER 1998
DOCUMENT TITLE CARTRIDGE, RIMFIRE, .22 CALIBER		
4. NATURE OF CHANGE (<i>Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.</i>)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (<i>Last, First, Middle Initial</i>)	b. ORGANIZATION	
c. ADDRESS (<i>Include Zip Code</i>)	d. TELEPHONE (<i>Include Area Code</i>) (1) Commercial (2) DSN (<i>if applicable</i>)	7. DATE SUBMITTED (YYYYMMDD)
8. PREPARING ACTIVITY		
a. NAME U.S. Army TACOM-ARDEC Standardization Team	b. TELEPHONE (<i>Include Area Code</i>) (1) Commercial (973) 724-5822 (2) DSN 880-5822	
c. ADDRESS (<i>Include Zip Code</i>) Attn; AMSTA-AR-QAW-E Picatinny Arsenal, NJ 07806-5000	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6221 Telephone (703) 767-6888 DSN 427-6888	