NOT MEASUREMENT SENSITIVE

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DEPARTMENT OF DEFENSE STANDARD PRACTICE

ENERGETIC MATERIAL DESCRIPTION SHEETS AND PROPELLANT LOADING AUTHORIZATION SHEETS



Comments, suggestions, or questions on this document should be addressed to: Commander, U.S. Army ARDEC, ATTN: RDAR-EIQ-SA, Picatinny Arsenal, New Jersey 07806-5000 or emailed to <u>usarmy.picatinny.ardec.list.ardec-stdzn-branch@mail.mil</u>. Since contact information can change, you may want to verify the currency of this address information using the ASSIST online database at <u>https://assist.dla.mil</u>.

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FOREWORD

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.

2. This standard covers requirements for description sheets for propellants, explosives and chemicals, and also for loading authorization sheets for propellants.

3. The task of revising MIL-STD-1171A was initiated by Joint Ordnance Commanders Group (JOCG) QA subgroup. Proposed changes to the MIL-STD-1171A were reviewed by a team of members drawn from US Army, US Navy, US Air Force, US Marine Corps, and Defense Contract Management Agency (DCMA). Team was comprised of subject matter experts (SME), product quality managers (PQM), quality assurance representatives (QAR), and quality assurance specialist ammunition surveillance (QASAS). Draft of proposed changes was also circulated among several professionals representing energetic material producers and contractors for their feedback, and the suggestions received from them have also been incorporated to the possible extent in this revision.

4. Comments, suggestions, or questions on this document should be addressed to: Commander, U.S. Army ARDEC, ATTN: RDAR-EIQ-SA, Picatinny Arsenal, New Jersey 07806-5000 or emailed to <u>usarmy.picatinny.ardec.list.ardec-stdzn-branch@mail.mil</u>. Since contact information can change, you may want to verify the currency of this address information using the ASSIST online database at <u>https://assist.dla.mil</u>.

CONTENTS

PARA	AGRAPH	PAGE					
	FOREWORD	ii					
1.	SCOPE	1					
1.1	Scope	1					
1.2	Application	1					
2.	APPLICABLE DOCUMENTS						
3.	DEFINITIONS						
4.	GENERAL REQUIREMENTS						
5.	DETAILED REQUIREMENTS	2					
5.1	General	2					
5.2	Propellant description sheet	2					
5.3	Rocket propellant description sheet	6					
5.4	Propellant loading authorization sheet	11					
5.5	Description sheet for explosives, chemicals, etc.	13					
6.	NOTES	17					
6.1	Intended use	17					
6.2	Consideration of data requirements	17					
6.3	Subject term (key word) listing	17					
6.4	Changes from previous issue	17					
FIGU	RE						
1	Sample propellant description sheet	5					
2	Sample rocket propellant description sheet	9					

Sample propellant loading authorization sheet

Sample description sheet for explosives, chemicals, etc.

12

16

3

4

APPENDIX

BLANK SAMPLE DESCRIPTION SHEETS FOR ROPELLANTS, EXPLOSIVES AND CHEMICALS, AND PROPELLANT LOADING AUTHORIZATION SHEET

PARAGRAPH			
1.	SCOPE	18	
2.	APPLICABLE DOCUMENTS	18	
3.	SAMPLE SHEETS	18	
FIGUR	E		

A-1	Sample propellant description sheet	19
A-2	Sample rocket propellant description sheet	20
A-3	Sample propellant loading authorization sheet	22
A-4	Sample description sheet for explosives, chemicals, etc.	23
1 L -T	Sumple description sheet for explosives, enemieals, etc.	

1. SCOPE

1.1 <u>Scope</u>. This standard establishes the content requirements for the preparation of description sheets for propellants, explosives, and chemicals and loading authorization sheets for propellants.

1.2 <u>Application</u>. The description sheet is a record showing the key properties of the energetic material and the results of inspections performed. In general, description sheets assist in the performance of such functions as determining the quality of propellants or explosives, comparing and evaluating the processes of various loading plants producing the same item, investigating the cause of trouble, and facilitating future surveillance and renovation. The propellant loading authorization sheet is a record of recommended zone weights for propellant charges along with end item usage restrictions, if any, and the expiration date of the authorization.

2. APPLICABLE DOCUMENTS.

This section is not applicable to this standard.

3. DEFINITIONS.

This section is not applicable to this standard.

4. GENERAL REQUIREMENTS.

4.1 <u>Description sheet and loading authorization sheet</u>. Description sheets and loading authorization sheets will be prepared for each lot of propellants, explosives, and chemicals when specified in the contract or specification.

4.2 <u>Supplemental description sheet and loading authorization sheet</u>. Supplemental description sheets and loading authorization sheets will be prepared under the following conditions:

a. When the status of a lot is changed, or when a previously suspended, rejected, or incomplete lot is submitted for ballistic tests, a supplemental description sheet will be prepared, outlining the reason for the changed status.

b. When a rejected or suspended lot is reworked, a supplemental description sheet will be prepared for such renovated lot, describing the background of the lot, the rehabilitation performed, and the results of plant inspection and testing after reworking.

c. When a propellant or an explosive lot is reassessed, a description sheet and a loading authorization sheet (if applicable) will be prepared.

5. DETAILED REQUIREMENTS.

5.1 <u>General</u>. Individual requirements for the propellant description sheet, rocket propellant description sheet, propellant loading authorization sheet, and description sheet for explosives and chemicals are detailed in sections 5.2 to 5.5. Blank sample sheets are included in the appendix for possible applications.

5.2 Propellant description sheet.

5.2.1 <u>Purpose</u>. The propellant description sheet is used to show the identity of the lot, acceptable blend numbers of nitrocellulose, data concerning the manufacturing process and some process control test results, die sizes, and the results of physical and chemical acceptance tests on each lot of propellant other than rocket propellant. It serves as a statement of inspection of the lot of propellant.

5.2.2 <u>Preparation</u>. The responsibility for proper preparation of the propellant description sheet rests with the producer. However, such action in no way relieves the inspector of his final responsibility for the report, to the correctness of which he must attest by signature.

a. A propellant description sheet will be prepared for each lot of propellant, other than rocket propellant, manufactured, reprocessed, reassessed, or re-blended.

b. When a lot, previously accepted, is re-blended, reassessed or reprocessed, a supplemental propellant description sheet will be prepared to indicate the added processing and the results of any added acceptance tests.

c. When a lot of propellant is produced by blending together several lots which have been previously accepted as individual lots, the quantities of propellant in pounds, type of propellant, lot numbers, and the weapon and model for which each lot is intended will be shown on the propellant description sheet.

Example:

Propellant comprising this blend is as follows:

•

1742 lb.	Prop., M1, IND. Lot 15136 for 155MM Gun, M1, Charge, M19
26457 lb.	Prop., M1, IND. Lot 30708 for 155MM Gun, M1, Charge, M19
13337 lb.	Prop., M1, IND. Lot 30709 for 155MM Gun, M1, Charge, M19
3608 lb.	Prop., M1, IND. Lot 30711 for 155MM Gun, M1, Charge, M19
26121 lb.	Prop., M1, IND. Lot 32670 for 155MM Gun, M1, Charge, M19
71265 lb.	Approximate weight before blending.

d. Normally, results of tests will be reported to the number of decimal places required in the test procedure, but never to less than the number of decimal places shown in the specification or other applicable requirements.

5.2.3 <u>Required information</u>. Instructions are provided below for how to fill out a sample propellant description sheet with required information inputs. Paragraphs have been numbered to correspond with the numbers on the sample sheet. Other formats of propellant description sheets, other than the indicated sample sheet, are acceptable as long as these sheets contain all required information and follow similar formatting as the sample sheet. A blank sample sheet is included in the appendix. The propellant description sheet shall contain at a minimum the following information:

<u>SPACE 1. LOT NUMBER</u>. Enter the lot number assigned by the contractor.

<u>SPACE 2. COMPOSITION NUMBER</u>. Show the composition number and type of grain, and for small arms propellant, the Improved Military Rifle (IMR) number if available.

Examples:

M1 MP (multi-perf), M10 Type II, M10 Flake, M 12, IMR 5010. WC 819 Ball Powder.

<u>SPACE 3. FOR</u>. Show weapon model and projectile for which the lot was intended.

<u>SPACE 4. MANUFACTURED AT</u>. Give the manufacturer's name and plant location, as contained in the contract or production order. In the case of a Government-owned works or arsenal, use the title of the works or arsenal.

<u>SPACE 5. PACKED WEIGHT</u>. Show the weight in pounds as packed.

<u>SPACE 6. CONTRACT NUMBER</u>. Give the applicable contract number.

<u>SPACE 7. NSN</u>. Enter the National Stock Number.

<u>SPACE 8.</u> <u>SPECIFICATION NUMBER</u>. Show the applicable specification number, drawing number, revision and date.

<u>SPACE 9. NITROCELLULOSE</u>. Show the acceptable blend numbers of nitrocellulose used in the lot. Indicate whether the lot is made from cotton linters or wood pulp cellulose.

SPACE 10. NITROGEN CONTENTK.I. STARCH TEST (65.5° C), if applicableSTABILITY TEST:GAS GENERATION TEST (132° C Bergman-Junk test)METHYL VIOLET PAPER TEST (134.5°C) – alternative test.

List the maximum, minimum, and average results of these tests for the nitrocellulose used in the lot.

<u>SPACE 11 (Optional). MANUFACTURE OF PROPELLANT</u>. List the weight of solvent per pound of NC and the percentages of ether, alcohol, or acetone used as solvents. List the percent of remix to whole.

<u>SPACE 12 (Optional). PROCESS-SOLVENT RECOVERY AND DRYING</u>. List temperatures and time cycles for solvent recovery and drying operations. Drying operations include water-dry and air-dry.

SPACE 13. TESTS OF FINISHED PROPELLANT. Enter the constituents of the propellant, the formula (nominal or as specified) and the percentages as determined by acceptance analysis in the "Composition" block. Enter results of the acceptance test for stability, form of grain, number of perforations, absolute density, and compressibility test results in the "Stability and Physical Tests" block.

SPACE 14. CLOSED BOMB. Enter the lot number for the propellant and lot number for the test standard (or reference propellant), temperature, relative quickness, and relative force. Additional information such as test method and burning rate can be entered in the Remarks section. Additional data plots can be attached to the propellant description sheet.

<u>SPACE 15</u> <u>DIE (INCHES)</u>. List actual physical dimensions of the die used.

<u>SPACE 16 FINISHED</u>. List dimensions of the finished propellant grain (average) as determined by measurement.

<u>SPACE 17 UNIFORMITY BY STD DEVIATION, %</u>. List (for length and diameter) the standard deviation in percent of mean dimensions.

<u>SPACE 18 DATES</u>. Enter date packed, date sampled, date tested, and date offered. The term "date offered" is defined as the date on which the manufacturer notifies the inspector that the lot is ready to be accepted. Enter type of packaging used, including box drawing number and applicable revision date. Indicate packaging level – A, B, or C.

<u>SPACE 19. REMARKS</u>. Enter statement that lot either meets specification requirements or fails to meet one or more of such requirements. Add any information as to unusual conditions of manufacture which could affect usability of the lot. Enter any other relevant information about the lot.

<u>SPACE 20. CONTRACTOR REPRESENTATIVE</u>. The representative signing for the contractor should be an official of sufficient authority to exercise control over the contractor's inspection and production.

SPACE 21. GOVERNMENT QUALITY ASSURANCE REPRESENTATIVE. The signature of the Quality Assurance Representative, or a person designated to sign for him, is required to indicate Government acceptance insofar as physical and chemical requirements are concerned whenever government oversight is called for. Otherwise enter "N/A".

5.2.4 <u>Distribution</u>. The distribution of a propellant description sheet shall be made in accordance with the instructions furnished by the procuring activity.

5.2.4.1 <u>Electronic submission</u>. Unless otherwise specified a copy of the propellant description sheet shall be entered into the Worldwide Ammunition Repository Program (WARP) database.

PROPELLANT DESCRIPTION SHEET					[LOT NUMBER: 1					
COMPOSITION: 2 FOR 3						PACKED AMOUNT: 5					
SPECIFICATION				CONTRAC	T NUMB	6					
MANUFACTURE	D AT:	4				NSN: 7					
				NITE	ROCELLULO	SE		I	~		
Accept	ted Blen	d Number	'S	Nitroger	n Content	KI Sta	rch	10	Stability		
				-	10	(65.5°C	C) 10	Gas (132°C)	Paper	_(134.5°C)	
				MAX	_%	N	AINS	ml NC	D/g	_ MINS	
	9			MIN	_%	N	AINS	ml NC	0/g	MINS	
				AVG	_%	N	AINS	ml NO	D/g	_ MINS	
								EXPLOSION	HRS		
			MANU	FACTURE O	F SOLVENT	PROPELLA	NT 11				
POUNDS S	OLVEN	NT PER PO	OUND NC/DR	RY WEIGHT I	NGREDIENTS	S CONSISTIN GE REMIX T	IG OF	POUNDS .	ALCOHOL	AND	
	F °F		001001000	PR	OCESS - DRY	ING	0 11101		TI	MF	
FROM	<u>, т</u>	1		1 K	12				DAVS	HOURS	
TROM	10				12				DITIS	поско	
			Т	EST OF FIN	ISHED PROP	ELLANT 13					
	PRO	OPELLAN	T COMPOSI	ΓΙΟΝ		STABILITY AND PHYSICAL TESTS					
Constit	tuent		Percent Formula	Percent Tolerance	Percent Measured	Tests			Formula	Actual	
	a					DDODEL			1)		
		USED BU	DMB			PROPEL	LANID	IMENSIONS (1	nches)		
Lot Number		Temp °F	Relative	Relative					Unifor	mity by	
			Quickness	Force		~			Std Devi	ation, %	
14					Parameter	Spec	Die	Finished	Spec	Actual	
							15	16	17		
									Da	tes	
Remarks [.]									Facked:	18	
									Test Finish	ed:	
								Offered:			
Type of Packing C	ontaine	& Packag	ging Level (A,	B, or C):		18					
Remarks:											
	19										
SIGNATURE O	F CON	FRACTO	R'S REPRESE	NTATIVE	SIGNATURE OF GOVERNMENT OA REPRESENTATIVE						
	2.511	20			51011		21			·	
20				21							

5.3 Rocket propellant description sheet.

5.3.1 <u>Purpose</u>. The rocket propellant description sheet is a record showing the identity of the lot, acceptable blend numbers of nitrocellulose, data concerning the manufacturing process and some process control test results, and the results of physical and chemical tests of the lot. It serves as a statement of inspection of the lot of bulk propellant used in the manufacture of Jet-Assisted Take-Off (JATO) items, rocket propelling charges, grains and assemblies. This sheet applies to extruded double based or base grain for cast double based propellant, and when Government is buying sheet stock.

5.3.2 <u>Preparation</u>. The responsibility for proper preparation of the rocket propellant description sheet rests with the producer. However, such action in no way relieves the inspector of his final responsibility for the report, to the correctness of which he must attest by signature.

a. A rocket propellant description sheet will be prepared for each lot of rocket propellant manufactured or reworked.

b. When a lot, previously accepted, is reworked, a supplemental rocket propellant description sheet will be prepared to indicate the added processing and results of any added acceptance tests.

c. Normally, results of tests will be reported to the number of decimal places required in the test procedure, but never to less than the number of decimal places shown in the specifications or other applicable requirements. Rounding of the numerical values of the test results is permitted within the number of places shown in the specification.

5.3.3 <u>Required information</u>. Instructions are provided below for how to fill out a sample rocket propellant description sheet with the required information. Paragraphs have been numbered to correspond with the numbers typed on the sample sheet. Other formats of rocket propellant description sheets, other than the indicated sample sheet, are acceptable as long as these sheets contain all required information and follow similar formatting as the sample sheet. For double-base sheet stock, the use of gun propellant description sheets are also acceptable. A blank sample sheet is included in the appendix. The rocket propellant description sheet shall contain at a minimum the following information:

<u>SPACE 1. LOT NUMBER</u>. Enter the Army lot number assigned by the contracting officer if applicable and the year of manufacture.

<u>SPACE 2. MANUFACTURER'S LOT NUMBER</u>. Give the manufacturer's lot numbers, if used, and the year of manufacture.

SPACE 3. CONTRACT NUMBER. Enter the applicable contract number.

SPACE 4. NSN. Enter the National Stock Number.

<u>SPACE 5. SPECIFICATION NUMBER</u>. Give the applicable specification number.

<u>SPACE 6. REVISION</u>. Show the applicable revision date of the specification.

<u>SPACE 7. DRAWING NUMBER</u>. Give the drawing number of the propellant grain.

SPACE 8. REVISION. Show the applicable revision date of the propellant grain

drawing, if applicable.

<u>SPACE 9. WEAPON</u>. Enter the name of the rocket or JATO for which the propellant is intended.

<u>SPACE 10. DESCRIPTION OF PROPELLANT</u>. Show the descriptive name of the propellant, including the type, composition, formula designation, etc.

<u>SPACE 11. MANUFACTURED AT</u>. List the manufacturer's name and plant location as contained in the contract. In the case of a Government-owned works or arsenal, use the Government-owned works or arsenal.

SPACE 12. PACKED WEIGHT. Show the weight in pounds of the lot as packed.

<u>SPACE 13. NITROCELLULOSE</u>. Show the acceptable blend numbers of nitrocellulose used in the lot. Indicate whether the lot is made from cotton linters or wood pulp cellulose.

SPACE 14. NITROGEN CONTENT

<u>K.I. STARCH TEST (65.5° C)</u>, if applicable <u>STABILITY TEST</u>: GAS GENERATION TEST (132° C Bergman-Junk test) METHYL VIOLET PAPER TEST (134.5°C) – alternate test.

List the maximum, minimum, and average results of these tests for the nitrocellulose used in the lot.

<u>SPACE 15. SOLVENT METHOD OF MANUFACTURE</u>. List the weight of solvent per pound, the percent of ether, alcohol, or acetone used as solvent, and the temperatures and time (days, hours) required for drying. List the percent of remix and rework to whole.

<u>SPACE 16. SOLVENTLESS MANUFACTURE</u>. Indicate slurry or paste method; show time and temperature of mixing; indicate extrusion ram rate and pressure; show die and basket temperatures; and show time and temperature of annealing.

<u>SPACE 17. REMARKS</u>. Enter information on sources of raw material, changes in processes, unusual occurrences during production, and any other information pertinent to the preceding spaces.

<u>SPACE 18. COMPOSITION</u>. Enter the composition formula and composition as found by acceptance analysis.

<u>SPACE 19. STABILITY AND PHYSICAL TESTS</u>. Show the results of stability and physical tests, as applicable.

<u>SPACE 20. MEASUREMENTS</u>. List the results of dimensional measurements, as performed during acceptance testing.

SPACE 21. VISUAL INSPECTION. Show the results of visual inspection, as required.

<u>SPACE 22. DATE PACKED</u>. Provide the date of packing.

SPACE 23. DATE TEST FINISHED. Show the date the acceptance tests were completed.

<u>SPACE 24. TYPE OF PACKING BOX</u>. Enter the type of packaging used, including drawing number and applicable revision date.

<u>SPACE 25</u>. "This lot (does) (does not) meet chemical and physical requirement." Indicate compliance or non-compliance by choosing the inappropriate word.

<u>SPACE 26. REMARKS</u>. Enter here such general information as deviations from drawings and specifications, if any, and consequent waivers granted. If applicable, give data showing why lot does not meet chemical and physical requirements.

<u>SPACE 27. TECHNICAL DEPARTMENT</u>. The representative signing for the contractor should be an official of sufficient authority to exercise control over the contractor's inspection and production groups.

SPACE 28. INSPECTOR. The signature of the Quality Assurance Representative, or a person designated to sign for him, is required to indicate Government acceptance insofar as physical and chemical requirements are concerned whenever government oversight is called for. Otherwise enter "N/A".

<u>SPACE 29. U.S. CHEMIST</u>. When all or a part of the acceptance testing has been performed by a Government chemist, this space will be signed by the Government chemist responsible for the accuracy of laboratory acceptance test results, normally the Chief Chemist. If there is no government acceptance testing required, enter "N/A".

5.3.4 <u>Distribution</u>. The distribution of rocket propellant description sheets shall be made in accordance with the instructions furnished by the procuring activity.

5.3.4.1 <u>Electronic submission</u>. Unless otherwise specified, a copy of the rocket propellant description sheet shall be entered into the Worldwide Ammunition Repository Program (WARP) database.

ROCKET PROPELLANT DESCRIPTION SHEET									
DOA LOT NU	JMBER	1		MFR LO	Г NUMB	ER	2		
CONTRACT	NUMBER	3	NSN	4	SPEC 1	NO.		5	REV. 6
DRAWING N	UMBER	7	REVISION	8	WEAPO	ON	9		
DESCRIPTIO	N OF								
PROPELLAN	T	10							10
MANUFACT	URED AT	11				PA	CKED WEI	GHT	12
CDADE			NITRO	CELLULO	DSE	13			
GRADE		EDC		IYPE					
AUCEPTED BLEND NUMBERS									
NITROGEN	CONTENT	14	(65.5°C)	IN I LIN I	14	Gas Gen. (132	$^{\circ}C)$ Metl	1 1vl Violet Par	4 per (135°C)
MAXIMUM		%	MAXIMUM		MINS	ml NO	/g MAX		MINS
MINIMUM		%	MINIMUM		MINS	ml NO	/g MIN	-	MINS
AVERAGE		%	AVERAGE		MINS	ml NO	/g AVG		MINS
						EXPLOSION	<u> </u>		MINS
		S	OLVENT METH	IOD OF M	IANUFA	CTURE 15			
TOTAL WEIG	GHT OF SOLVI	ENT PER F	OUND NON-VOL	ATILE CON	ISTITUE	ENTS CONSISTIN	G OF	POUNDS	
ALCOHOL A	ND PO	OUNDS AC	CETONE/ETHER P	ER 100 POU	JNDS SC	DLVENT.			
PERCENTAC	GE OF REMIX_		RE'	WORK TO	WHOLE				15
TEMPS °C PROCESS DRYING						TIN	MES		
FROM TO								DAYS	HOURS
			SOLVENTLE	SS MANU	FACTU	RE 16			
								TIME	TEMPS
								HOURS	° F
SLURRY OR	PASTE METH	OD							
MIXING									
EXTRUSION	•								
RAM RATE_		_		,	DCI				
IN/SEC	ATUDE		KAM PRESSURE		P.S.I				
DIE TEMPEKATUKE									
TYPE ANNE									
REMARKS	ALINO								
KEWAKKS									
	17								

FIGURE 2. Sample rocket propellant description sheet.

TEST OF FINISHED PROPELLANT										
COM	POSITION PER	CENT 18			MEASU	JREMENTS	20			
CONSTITUENT FORMULA MFR INSPR			0	UTSIDE DIAMET	ΓER	FOUND	SPECIFIED			
				MEAN						
				STANDAR	D DEVIATION					
				MEAN +		STD DEV				
				NUMBER S	TICKS MEASUF	RED				
					LENGTH					
				MEAN						
				NUMBER S	TICKS MEASUF	RED				
				NUMBER S INCH	TICKS EXCEED	ING				
				G	RAIN DIMENSIC	ONS				
				LENGTH						
				DIAMETER	ł					
				DIA OF PE	RFORATIONS					
				AVERAGE	WEB					
				S	HEET DIMENSIC	ONS				
				LENGTH						
	11			WIDTH						
				THICKNESS						
STABILITY AND PHYSICAL TEST 19			RADIOGRAPHICAL OR ULTRASONIC RESULTS FOR							
°C HEAT T	EST SP	MFR	INSPR	FISSURES AND FOREIGN MATERIAL						
FUMES							NO INSP	NO DEF		
EXPLOSION				100% V	ISUAL INSPECT	ION 21				
GRAIN FORM				STRAIGHT	NESS					
DENSITY LB/CU.	IN			FISSURES	& PINHOLES EX	CEEDING				
SALMON PINK				INCH IN DIAMETER						
WEIGH	łΤ	FOUND	SPECIFIED	BREAKS IN SURFACE						
STICK CHARG	E (GRAM)			REMARKS						
MEAN	_ (• • • • • • • • • • • • • • • • • •									
STANDARD DEVI	ATION									
MEAN +	STD DEV									
MEAN -	STD DEV									
NUMBER CHARG	ES WEIGHED									
DATE PACKED	22				DATE TEST FI	NISHED	2.	3		
TYPE OF PACKIN	G BOX	24								
THIS LOT DOES/E	OOES NOT MEI	ET CHEMI	CAL AND PHY	YSICAL REQ	IREMENTS		2.	5		
DEMADES	UND IF AN I N	UTED UN	DEN KENIAKI	x0)						
KEWIAKKS										
26										
TECHNICAL DE		A T	MAY INTODE CO				HCT			
TECHNICAL DEF	AKIMENT	Al	KMY INSPECT	IUK		US CHEM	1151			
27			28		29					

FIGURE 2. <u>Sample rocket propellant description sheet</u> - Continued.

5.4 Propellant loading authorization sheet.

5.4.1 <u>Purpose</u>. The propellant loading authorization sheet is a record showing the identity of the lot and its suitability for loading into the ammunition item stated in the sheet. It provides recommendation for charge weights to be used and validity period for the authorization.

5.4.2 <u>Preparation</u>. Persons such as product quality specialists having responsibility for quality assurance of the propellant shall establish the expiry date and issue the loading authorization. The person issuing the propellant loading authorization sheet shall be responsible for entering propellant loading authorization sheets into the WARP database.

5.4.2.1 A propellant loading authorization sheet will be prepared for every new lot of propellant, as well as every time a propellant lot is reprocessed; reassessed; or re-blended.

5.4.3 <u>Required information</u>. Instructions are provided below for how to fill out a propellant loading authorization sheet with the required information. Paragraphs have been numbered to correspond with the numbers typed on the sample sheet. Other formats of propellant loading authorization sheets, other than the indicated sample sheet, are acceptable as long as these sheets contain all required information and follow similar formatting as the sample sheet. A blank sample sheet is included in the appendix. The propellant loading authorization sheet shall contain at a minimum the following information:

SPACE 1. ISSUE DATE. Enter the date of issue of the propellant loading authorization.

<u>SPACE 2. PROPELLANT DESCRIPTION</u>. Enter the nomenclature or brief description of the propellant for which the loading authorization applies.

SPACE 3. LOT NUMBER. Enter the lot number or numbers of the propellant.

SPACE 4. DATE TESTED. Enter the date testing was completed.

<u>SPACE 5. NAME OF THE TEST FACILITY</u>. Enter the name of the facility where test was conducted, if applicable.

<u>SPACE 6. AUTHORIZED ITEMS</u>. Enter the type of ammunition items or rockets or JATO items in to which the propellant may be loaded.

SPACE 7. RESTRICTIONS. Enter restrictions for use, if any.

<u>SPACE 8. RECOMMENDED CHARGE WEIGHTS</u>. Enter the charge weights recommended for each zone, as applicable.

SPACE 9. EXPIRY DATE. Enter the expiration date of the loading authorization.

SPACE 10. REMARKS. Enter here any other information pertinent to the preceding spaces.

<u>SPACE 11. POC</u>. Enter the name, office symbol, and telephone number of the person issuing the loading authorization.

5.4.4 <u>Distribution</u>. The distribution of the propellant loading authorization sheet shall be made in accordance with the instructions furnished by the procuring activity.

5.4.4.1 <u>Electronic submission</u>. Unless otherwise specified, a copy of the propellant loading authorization sheet shall be entered into the WARP database.

PROPELLANT LOADING AUTHORIZATION SHEET								
ISSUE DATE	1							
PROPELLANT DESCRIPTION		2						
LOT NUMBER/S	3		DATE TESTED	4				
NAME OF THE TEST FACILITY		5	•					
AUTHORIZED ITEMS		6						
RESTRICTIONS		7						
RECOMMENDED CHARGE WEIGHTS		8						
EXPIRY DATE	9							
REMARKS	10							
POC	11							
NAME	_	OFFICE S	YMBOL	TELEPHONE				



5.5 Description sheet for explosives, chemicals etc.

5.5.1. <u>Purpose</u>. The description sheet is intended to serve as a record of results obtained during inspection to establish the acceptability of chemical materials such as bulk explosives, pyrotechnics or chemical raw materials.

5.5.2. <u>Preparation</u>. The responsibility for proper preparation of the description sheet for explosives, chemicals, etc. rests with the producer. However such action in no way relieves the inspector of his final responsibility for the report, to the correctness of which he must attest by signature.

a. A description sheet will be prepared for each lot of explosive and chemicals manufactured or retested.

b. A description sheet may cover more than one batch; however, results of tests for only those batches having serial numbers in sequence may be recorded on any one sheet. Results of inspection and tests for accepted batches and rejected batches will not be placed on the same sheet.

c. Description sheets, when used to report results of inspection and rejection will have the word "Rejected" or "Rejection". Such sheets will show clearly the cause for rejection.

d. Normally, results of tests will be reported to the number of decimal places required in test procedure, but never to less than the number of decimal places shown in the specifications or other applicable requirements. The specification limits are to be considered absolute when judging the acceptability of the test item. Rounding of the numerical value of the test results will not be permitted within the number of places shown in the specification. In rounding off the numerical values of test results, the last significant figure (the terminal decimal figure of the expressed requirement) will be increased by one when the discarded figure is five or greater.

e. If the status of any batch or lot is changed subsequent to acceptance or rejection, a supplemental report will be made, utilizing a description sheet for explosives, chemicals, etc., with a clear statement of the reason for the change in status.

5.5.3 <u>Required information</u>. Instructions are provided below for how to fill out a sample description sheet for explosives, chemicals, etc. with the required information. Paragraphs have been numbered to correspond with the numbers typed on the sample sheet. Other formats of description sheets for explosives, chemicals, etc., other than the indicated sample sheet, may be used as long as these sheets contain all required information and follow similar formatting as the sample sheet. A blank sample sheet is included in the appendix. The description sheet for explosives, chemicals, etc. shall contain at a minimum the following information:

<u>SPACE 1. INSTALLATION</u>. Enter full name of installation (e.g., Holston Army Ammunition Plant) or activity conducting the inspection.

SPACE 2. MANUFACTURER. Show full name of the manufacturer.

SPACE 3. CONTRACT. List contract number or purchase order number.

<u>SPACE 4. DATE</u>. Enter the date sheet was completed.

SPACE 5. MATERIAL. Show name of material as set forth in the specification, along

with type, class, grade, or other class designation.

SPACE 6. LOT NUMBER. Enter the lot number assigned by the contractor.

<u>SPACE 7. FROM NUMBER</u>. Enter the first batch number if a series of batches is being reported. Enter "See COA" (certificate of analysis) for non-sequential batches.

<u>SPACE 8. THRU NUMBER</u>. Show the number of the last batch covered by the report. Leave space blank if only one batch is reported or if batches are not sequential.

<u>SPACE 9. TOTAL NUMBER OF BATCHES</u>. Show the number of batches covered by the report.

<u>SPACE 10. TOTAL NET AMOUNT ACCEPTED</u>. Show the total quantity, in pounds (or units stipulated in the contract), accepted by the report.

<u>SPACE 11. PLACE MANUFACTURED</u>. Show the location or name of manufacturing plant or point where material is actually produced.

<u>SPACE 12. SPECIFICATION AND AMENDMENT: DRAWING NUMBER</u>. Record applicable specification number and amendment, and any drawing numbers with revisions.

SPACE 13. TEST RESULTS. This space is provided for reporting the results of tests. Batch numbers, batch quantities, and the results of tests for each requirement will be tabulated for all batches reported on the sheet. It is usually advantageous to list batch number, batch size, and each specification requirement at column headings, and tabulate data for each batch below the heading. In this manner, the results of as many as 20 to 25 batches may be reported, and the material accepted, on one sheet. Immediately below the column heading for the requirement (e.g., acidity, water insoluble matter, etc.), the limit or tolerance for the requirement will be shown. Enter "See COA" if this space is not utilized and certificate of analysis is attached instead.

SPACE 14. EXPIRATION DATE. Enter the expiration date for the lot, if applicable.

<u>SPACE 15. REMARKS</u>. Cite reference to any waivers, Engineering Orders, or similar authority, to accept material at variance with specifications. Include comments pertinent to the lot or its inspection and acceptance.

<u>SPACE 16.</u> <u>SAMPLING CONDUCTED BY</u>. Indicate whether the sampling was performed by a Government inspector or the contractor. Include name of the individual, if known, and the organization.

<u>SPACE 17. TESTING CONDUCTED BY</u>. The person responsible for doing the testing will sign in this space over his typed name and title. The title must indicate whether testing was performed by a Government inspector, by a commercial testing laboratory, by another Government testing laboratory, or by some interested party, such as the contractor.

SPACE 18. If any part of the inspection is conducted by the manufacturer, a certificate of the accuracy or validity of results obtained is required. The certificate should be explicit with respect to any limits of the certificate coverage. The certificate should be signed by the plant superintendent or an official designated by him.

<u>SPACE 19. DATE</u>. Enter the date of acceptance or rejection.

<u>SPACE 20. TITLE</u>. Enter the official title of the person making the acceptance or rejection.

<u>SPACE 21. SIGNATURE</u>. The signature of the person signing the report and thus accepting the material will appear over his typed name on the original copy of the form.

5.5.4 <u>Distribution</u>. The distribution of the description sheet shall be made in accordance with the instructions furnished by the procuring activity.

5.5.4.1 <u>Electronic submission</u>. Unless otherwise specified a copy of the description sheet shall be entered into the Worldwide Ammunition Repository Program (WARP) database.

DESCRIPTION SHEET	DATE	4				
FOR EXPLOSIVES,	MATERIAL	5				
CHEMICALS, ETC.	LOT NUMBER	6				
INSTALLATION	FROM NUMBER	THROUGH NUMBER				
1	7	8				
	TOTAL NUMBER OF BATCHES	TOTAL NET AMOUNT ACCEPTED				
	9	10				
MANUFACTURER 2	PLACE MANUFACTURE	D 11				
CONTRACT	SPECIFICATION AND A	MENDMENT - DRAWING NUMBER				
3		12				
TEST RESULTS						
13						
EXPIRATION DATE						
REMARKS						
15						
SAMPLING CONDUCTED BY	CERTIFI	ED TRUE AND CORRECT				
TESTING CONDUCTED BY 16						
THE ADOVE MATERIAL COMPLIES WITH S	DECIEICATION	18				
THE ABOVE MATERIAL COMPLIES WITH S	PECIFICATION					
THE ABOVE DESCRIBED BATCHES ARE HE		ATE SIGNATURE				
19	20	21				
DATE	TITLE	SIGNATURE				

FIGURE 4. Sample description sheet for explosives, chemicals, etc.

6. NOTES

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

6.1 <u>Intended use</u>. Description sheets for propellants and explosives are intended to be used for documentation of propellant and explosive test results and the Government's acceptance of these test data conforming to specified chemical and physical requirements. The propellant loading authorization sheet is intended to document approval of zone weights for propellant charges, end item usage restrictions, if any, and the expiration date of the authorization.

6.2 <u>Consideration of data requirements</u>. The following data requirements should be considered when this standard is applied on a contract. The applicable Data Item Descriptions (DIDs) should be reviewed in conjunction with the specific acquisition to ensure that only essential data are requested/provided and that the DIDs are tailored to reflect the requirements of the specific acquisition. To ensure correct contractual application of the data requirements, a Contract Data Requirements List (DD Form 1423) must be prepared to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirement for a DO Form 1423. Entry of data into the required fields in WARP along with attachment of test results/certificate of analysis (COA) is deemed as meeting the data requirements of this standard.

Reference Paragraph	DID Number	DID Title	Suggested Tailoring
4. & 5.	(TBD)	Propellant Description Sheet	(TBD)

The above DIDs were current as of the date of this standard. The ASSIST database should be researched at <u>http://assist.dla.mil/quicksearch/</u> to ensure that only current and approved DIDs are cited on the DD Form 1423.

6.3 Subject term (keyword) listing.

Propellant description sheet Rocket propellant description sheet Description sheet for explosives, chemicals, etc. Rocket propellant Explosive Chemicals

6.4 <u>Changes from previous issue</u>. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

APPENDIX A

BLANK SAMPLE DESCRIPTION SHEETS FOR ROPELLANTS, EXPLOSIVES AND CHEMICALS, AND PROPELLANT LOADING AUTHORIZATION SHEET

A.1 SCOPE.

A.1.1 <u>Scope</u>. This appendix contains one blank sample sheet each for the three description sheets for propellants and explosives, and one loading authorization sheet for propellants. This appendix is not a mandatory part of the standard. The information contained herein is intended for guidance only.

A.2 APPLICABLE DOCUMENTS. This section is not applicable to this appendix.

A.3 SAMPLE SHEETS. One blank sample sheet for each of the three description sheets for propellants, explosives and chemicals, and one loading authorization sheet for propellants are included below:

FIGURE A-1	Sample propellant description sheet (blank)
FIGURE A-2	Sample rocket propellant description sheet (blank)
FIGURE A-3	Sample propellant loading authorization sheet (blank)
FIGURE A-4	Sample description sheet for explosives, chemicals, etc. (blank)

PROPELLANT DESCRIPTION SHEET						LOT NUMBER:				
COMPOSITION: FOR						PACKED	AMOUN	T:		
SPECIFICATION				CONTRACT NUMBER:						
MANUFACTURE	ED AT:					NSN:				
				NIT	ROCELLULO	SE				
Accept	ted Blen	d Number	rs	Nitrog	en Content	KI Sta	urch		Stability	<u>.</u>
						(65.	.5°C)	Gas (132°C)	Paper	(134.5°C)
				MAX	%]	MINS	ml NO	D/g	_ MINS
		MIN	_%]	MINS	ml NC)/g	_ MINS		
				AVG	%]	MINS	ml NO	D/g	_ MINS
								EXPLOSION	HRS	
			MAN	UFACTURE	OF SOLVENT	PROPELL	ANT			
POUNDS S	OLVEN	NT PER P	OUND NC/DF	RY WEIGHT	INGREDIENTS	S CONSISTI	NG OF	POUNDS	ALCOHOL	AND
POUNDS A	CETO	NE PER 1	00 POUNDS S	SOLVENT.	PERCI	ENTAGE RE	МІХ ТО У	WHOLE.		
TEMPERATUR	₹E, °F			PI	ROCESS - DRY	ING			TI	ME
FROM	ТО								DAYS	HOURS
	-									
				TEST OF F.	INISHED PRO	PELLANI				0
	PRO	JPELLAN	NT COMPOST	TION	- D	2	TABILIT	Y AND PHYS	ICAL TEST	S I I I
Constr	tuent		Formula	Tolerance	Percent	Tests			Formula	Actual
			Tornula	Toteranee	Wiedsured					
	CL	OSED BC	OMB			PROPEL	LANT D	MENSIONS (i	nches)	
Lot Number	r	Гетр °F	Relative	Relative			Unifor	ormity by		
		1	Quickness	Force					Std Deviation. %	
					Parameter	Spec	Die	Finished	Spec	Actual
									•	
									Da	ates
									Packed:	
Remarks:									Sampled:	
									Test Finish	ed:
									Offered:	
Type of Packing C	ontainer	r & Packa	ging Level (A,	B, or C):						
Remarks:										
SIGNATURE OF CONTRACTOR'S REPRESENTATIVE			SIGNA	ATURE OF C	GOVERNN	MENT QA REF	PRESENTA	ΓΙVΕ		

ROCKET PROPELLANT DESCRIPTION SHEET										
DOA LOT NU	JMBER			MFR LOT	Γ NUMBER					
CONTRACT NUMBER			NSN		SPEC NO.					REV.
DRAWING N	UMBER		REVISION		WEAPON					
DESCRIPTIO	N OF									
PROPELLAN	Τ									
MANUFACT	URED AT					PA	CKED	WEIG	GHT	
			1	NITROCEI	LLULOSE					
GRADE				TYPE						
ACCEPTED E	BLEND NUMB	ERS	K L CT A D CU	CONTENT						
NITROGEN	CONTENT		K.I. STARCH CONTENT			STABILITY TEST Gas Gan (132°C) Mathyl Violat Dapar (125°C)				
MAXIMUM		0/2			das dell.	(152 C)	$\gamma_{\sigma} = \frac{1}{M} \frac{1}$			
MINIMUM		/0	MINIMUM		MINS	m	$\frac{100}{g}$	MI	N	MINS
AVERAGE		%	AVERAGE		MINS	m	$\frac{110}{g}$		/G	MINS
TTELETEL		/0	ITTERTOL		10111 (5		110/5	EXI	PLOSION	MINS
			SOLVENT N	METHOD	OF MANUFA	CTURE				
TOTAL WEIG	GHT OF SOLVI	ENT PER I	POUND NON-VOI	ATILE CON	ISTITUENTS (CONSISTING C	F	PC	OUNDS	
ALCOHOL A	ND PC	UNDS A	CETONE/ETHER F	PER 100 POI	UNDS SOLVEN	NT.	·		001125	
PERCENTAGE OF REMIX . REWORK TO WHOLE										
TEMPS °C PROCESS DRYING					TIMES					
FROM	ТО								DAYS	HOURS
			SOLVE	NTLESS N	IANUFACTU	J RE				1
									TIME	TEMPS
									HOURS	°F
SLURRY OR	PASTE METH	OD								
MIXING										
EXTRUSION										
RAM RATE_		_IN/SEC	RAM PRESSUI	RE	P.S.I					
DIE TEMPER	ATURE									
BASKET TEMPERATURE										
I YPE ANNEALING										
KEMARKS										

COMPOSITION PERCENT INSPR IMEASUREMENTS FOUND SPECIFIED CONSTITUENT FORMULA MFR INSPR OUTSIDE DIAMETRR FOUND SPECIFIED Image: Signal	TEST OF FINISHED PROPELLANT									
CONSTITUENTFORMULAMFRINSPROUTSIDE DIAMETERFOUNDSPECIFIEDIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	COM	POSITION PI	ERCENT			MEASUREMENTS				
Image: mark bit is a strand of the	CONSTITUENT FORMULA M			INSPR	OUTSIDE DIAMETER		FOUND	SPECIFIED		
Image: matrix stands and stands an					MEAN					
Image: bit is a strain of the strain of t					STANDARI	D DEVIATION				
Image: state					MEAN +	STD DEV				
Image: market of the second secon					NUMBER S	TICKS MEASURED				
Image: matrix of the second secon						LENGTH				
Image: state of the second					MEAN					
Image: Strategy of the second seco					NUMBER S	TICKS MEASURED				
Inch<					NUMBER S	TICKS EXCEEDING				
Image: matrix for the stress of th					INCH					
Image: mark test of the state of					GI	RAIN DIMENSIONS				
Image: matrix for the second secon					LENGTH					
Image: matrix of the second secon					DIAMETER					
Image: state in the sta					DIA OF PEF	RFORATIONS				
Image: strain of the strai					AVERAGE	WEB				
Image: stability and physical test LENGTH Image: stability and physical test STABILITY AND PHYSICAL TEST RADIOGRAPHICAL OR ULTRASONIC RESULTS FOR °C HEAT TEST SP MFR INSPR FUMES Image: stability of test NO INSP GRAIN FORM Image: stability of test NO INSP GRAIN FORM Image: stability of test Image: stability of test GRAIN FORM Image: stability of test Image: stability of test GRAIN FORM Image: stability of test Image: stability of test GRAIN FORM Image: stability of test Image: stability of test GRAIN FORM Image: stability of test Image: stability of test GRAIN PORM Image: stability of test Image: stability of test SALMON PINK Image: stability of test Image: stability of test MEAN STD DEV Image: stability of					SH	HEET DIMENSIONS				
WIDTH Image: constraint of the second seco					LENGTH					
THICKNESS Image: Character of the second sec					WIDTH					
STABILITY AND PHYSICAL TEST RADIOGRAPHICAL OR ULTRASONIC RESULTS FOR °C HEAT TEST SP MFR INSPR FISSURES AND FOREIGN MATERIAL FUMES I NO INSP NO DEF EXPLOSION IO0% VISUAL INSPECTION IO0 GRAIN FORM STRAIGHTNESS IO0 DENSITY LB/CU. IN FISSURES & PINHOLES EXCEEDING IO0 SALMON PINK INCH IN DIAMETER IO0 WEIGHT FOUND SPECIFIED BREAKS IN SURFACE IO0 STICK CHARGE (GRAM) REMARKS IO0 IO0 IO0 IO0 MEAN IOO REMARKS IOO IOOO IOOOO IOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO					THICKNES	S				
°C HEAT TEST SP MFR INSPR FISSURES AND FOREIGN MATERIAL FUMES IO NO INSP NO DEF EXPLOSION IO 100% VISUAL INSPECTION IO GRAIN FORM IO STRAIGHTNESS IO DENSITY LB/CU. IN IO FISSURES & PINHOLES EXCEEDING IO SALMON PINK IO FISSURES & PINHOLES EXCEEDING IO SALMON PINK IO INCH IN DIAMETER IOO SALMON PINK IO INCH IN DIAMETER IOO WEIGHT FOUND SPECIFIED BREAKS IN SURFACE IOO STICK CHARGE (GRAM) IO REMARKS IOO IOO MEAN IOO REMARKS IOO IOO IOO MEAN STD DEV IOO IOO IOO IOO MEAN - STD DEV IOO IOO IOO IOO NUMBER CHARGES WEIGHED IOO IOO IOO IOO IOO DATE PACKED IOATE TEST FINISHED IOO IOO IOO IOO THIS LOT DOES/DOES NOT MEET CHEMICAL AND PHYSICAL REOIREMENTS </td <td colspan="6">STABILITY AND PHYSICAL TEST RADIOGRAPHICAL OR ULTRASONIC RESULTS FO</td> <td>TS FOR</td>	STABILITY AND PHYSICAL TEST RADIOGRAPHICAL OR ULTRASONIC RESULTS FO						TS FOR			
FUMES NO INSP NO DEF EXPLOSION 100% VISUAL INSPECTION GRAIN FORM STRAIGHTNESS DENSITY LB/CU. IN FISSURES & PINHOLES EXCEEDING SALMON PINK Image: Dissure of the second	°C HEAT TEST SP MFR INSPR FISSURES AND FOREIGN MATERIAL									
EXPLOSION 100% VISUAL INSPECTION Image: constraint of the system of	FUMES					NO INSP	NO DEF			
GRAIN FORM STRAIGHTNESS Image: constraint of the state of the	EXPLOSION				100%	VISUAL INSPECTION				
DENSITY LB/CU. IN Image: Superson of the superso	GRAIN FORM			STRAIGHT	NESS					
SALMON PINKImage: Salar and the system of the s	DENSITY LB/CU. IN			FISSURES &	& PINHOLES EXCEEDING					
WEIGHTFOUNDSPECIFIEDBREAKS IN SURFACEImage: Constraint of the symbol of the	SALMON PINK				INCH	IN DIAMETER				
STICK CHARGE (GRAM) REMARKS Image: Constraint of the second	WEIGHT		FOUND	SPECIFIED	BREAKS IN SURFACE					
MEAN Image: Constraint of the second secon	STICK CHARGE (GRAM)				REMARKS					
STANDARD DEVIATION Image: Constraint of the second sec	MEAN									
MEAN + STD DEV Image: Constraint of the state of	STANDARD DEVIATION									
MEAN - STD DEV Image: Constraint of the state of the	MEAN + STD DEV									
NUMBER CHARGES WEIGHED Image: Charges weighed I	MEAN - ST	TD DEV								
DATE PACKED DATE TEST FINISHED TYPE OF PACKING BOX THIS LOT DOES/DOES NOT MEET CHEMICAL AND PHYSICAL REOIREMENTS	NUMBER CHARGES	5 WEIGHED								
TYPE OF PACKING BOX THIS LOT DOES/DOES NOT MEET CHEMICAL AND PHYSICAL REOIREMENTS	DATE PACKED DATE TEST FINISHED									
THIS LOT DOES/DOES NOT MEET CHEMICAL AND PHYSICAL REOIREMENTS	TYPE OF PACKING BOX									
(EXCEPTIONS IF ANY NOTED UNDER REMARKS)										
REMARKS										
TECHNICAL DEPARTMENT ARMY INSPECTOR US CHEMIST	TECHNICAL DEPARTMENT ARMY INSPECT				TOR	US CHE	MIST			

FIGURE A-2-continued.

PROPELLANT LOADING AUTHORIZATION SHEET						
ISSUE DATE						
PROPELLANT DESCRIPTION						
LOT NUMBER/S	I	DATE TESTED				
NAME OF THE TEST FACILITY						
AUTHORIZED ITEMS						
RESTRICTIONS						
RECOMMENDED CHARGE WEIGHTS						
EXPIRY DATE						
REMARKS						
POC						
NAME	OFFICE SYMB	BOL TELEP	HONE			

FIGURE A-3

DESCRIPTION SHEET	DATE					
FOR EXPLOSIVES,	MATERIAL					
CHEMICALS, ETC.	LOT NUMBER					
INSTALLATION	FROM NUMBER	THROUGH NUMBER				
	TOTAL NUMBER OF BATCHES	TOTAL NET AMOUNT ACCEPTED				
MANUFACTURER	PLACE MANUFACTURED					
CONTRACT	SPECIFICATION AND AMENDM	IENT - DRAWING NUMBER				
EXPIRATION DATE REMARKS						
SAMPLING CONDUCTED BY	CERTIFIED TRUE	AND CORRECT				
TESTING CONDUCTED BY						
SPECIFICATION REQUIREMENTS						
THE ABOVE DESCRIBED BATCHES ARE H	EREBY ACCEPTED	SIGNATURE				
DATE	TITLE	SIGNATURE				

FIGURE A-4

INDEX

	PARAGRAPH	PAGE
Appendix		18
Application	1.2	1
Blank sheets		19-23
Data Item requirements	6.2	17
Detailed requirements	5	2-16
Description sheet for explosives, chemicals, etc	5.5	13
Distribution of description and sheets	5.2.4, 5.3.4, 5.5.4	4, 8, 15
Distribution of propellant loading authorization sheet	5.4.4	11
General requirements	4	1
Intended use	6.1	17
Propellant description sheet	5.2	2
Propellant loading authorization sheet	5.4	11
Rocket propellant description sheet	5.3	6
Scope	1	1

CONCLUDING MATERIAL

Custodian: Army-AR Navy-OS Air Force -11 Preparing Activity Army – AR (Project 1376-2016-005)

Review Activities Army –AV, MR, TE Navy – AS, MC, SH Air Force – 70, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.