

MIL-C-60313 (MU)
8 February 1965

MILITARY SPECIFICATION

CHARGE, PROPELLING, DUMMY, M98
FOR 175MM GUN M113

1. SCOPE

1.1 This specification covers one type of propelling charge for 175MM gun, designated as the M98 Dummy Propelling Charge.

2. APPLICABLE DOCUMENTS

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

SPECIFICATION

MILITARY

- MIL-A-2550 - Ammunition and Special Weapons, General Specification For
- MIL-I-45607 - Inspection Equipment, Supply and Maintenance of

STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes (ABC-STD-105)
- MIL-STD-109 - Quality Assurance Terms and Definitions
- MIL-STD-1235 - Single and Multilevel Continuous Sampling Procedures and Tables for Inspection by Attributes

FSC 1320

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DRAWINGS

ORDNANCE CORPS

- 9205873 - Dummy Propelling Charge 175MM, M98 For Gun M113
- 8857288 - Packing for Container, Metal, Ammunition, XM460 for Charge, Propelling, 175MM, M86 for Gun T256

PUBLICATIONS

ORDNANCE CORPS

- IEL-9205873 - Index of Inspection Equipment Lists

(Copies of specifications, standards, drawings and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer).

3. REQUIREMENTS

3.1 Material.-Materials shall be in accordance with applicable drawings and specifications.

3.2 Propelling charge.-The charge shall comply with all requirements specified on Drawing (dwg.) 9205873 and with all requirements specified in applicable specifications.

3.3 Workmanship.-All parts and assemblies shall be fabricated and finished in a thorough, workmanship manner. All parts shall be free of chips, dirt, grease, and other foreign material. All required markings shall be neat and sharply defined.

4. QUALITY ASSURANCE PROVISIONS

4.1 General quality assurance provisions.-Unless otherwise specified in the contract or purchase order, the supplier is

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responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements. Reference shall be made to Standard MIL-STD-109 in order to define terms used herein. The provisions of Specification MIL-A-2550 shall apply.

4.1.1 Submission of product.-At the time the completed lot of product is submitted to the Government for acceptance the contractor shall supply the following information accompanied by a certificate which attests that the information provided is correct and applicable to the product being submitted:

- a. A statement that the lot complies with all of the quality assurance provisions specified within this specification.
- b. Number of units of product inspected.
- c. Results obtained, by defect code, for all inspection performed.
- d. Drawing, specification number and date, together with an identification and date of changes.
- e. Certificates of compliance on all material purchased by the contractor when such material is controlled by Government specifications referenced in any of the contractual documents.
- f. Number of items in the lot.
- g. Date submitted.

The certificate shall be signed by a responsible agent of the certifying organization. The initial certificate submitted shall be substantiated by evidence of the agent's authority to bind his principal. Substantiation of the agent's authority will not be required with subsequent certificates unless, during the course of the contract, this authority is vested in another agent of the certifying organization.

4.1.2 Government verification.-Using the contractor's written quality assurance procedure, this detail specification, the applicable drawings and other contractual documents as a guide, the Government inspector shall verify at unscheduled intervals

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all quality assurance operations performed by the contractor. Verification will be performed to the extent necessary to assure compliance with the contractual requirements. Severity of Government inspection of individual characteristics will be directly related to the seriousness of the classification assigned. In no instance will a characteristic classified "critical" be accepted solely on the basis of the contractor's records.

4.2 Inspection provisions

4.2.1 Lot formation.-A lot shall consist of charges produced by one manufacturer in one unchanged process, in accordance with the same drawing, same drawing revision, same specification, and same specification revision. Drawing, specification, and process changes not affecting safety, performance or fit, as determined by the Government shall not necessitate changing the lot number.

4.2.2 Examination.-Inspection for Critical defects shall be 100 percent. Sampling plans and procedures for Major and Minor defects shall be in accordance with MIL-STD-105 except that continuous sampling plans in accordance with Standard MIL-STD-1235 may be used if approved by the procuring activity. Also, at the option of the procuring activity, AQL's and sampling plans may be applied to individual characteristics listed using an AQL of 0.65 percent for each Minor defect and an AQL of 0.40 percent for each Major defect. Equipment necessary for the performance of the inspections listed shall be in accordance with 4.2.3.

4.2.2.1 Filler, increment (see dwg. 9205869 covering a detail of dwg. 9205873)

Categories	Defects	Method of Inspection	Code No. (see 6.3)
Critical:	None defined		
Major:	None defined		
Minor:	AQL 2.5 percent		
201.	Total length.....	Gage	01001
202.	Diameter, maximum (max.).....	Gage	01002

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203.	Lead insecure.....	Manual	01003
204.	Weight.....	Balance	01004
205.	Coating improper or missing.....	Visual	01005
206.	Chamfer missing.....	Visual	01006
207.	Evidence of poor workmanship (see 3.3).....	Visual	01007

4.2.2.2 Body increment (see dwg. 9205870 covering a detail of
dwg. 9205873.)

Categories	Defects	Method of Inspection	Code No.
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Critical: None defined

Major: None defined

Minor:	AQL 1.5 percent		
201.	Stitching missing or improper.....	Visual	02001
202.	Marking misleading or un- identifiable.....	Visual	02002
203.	Evidence of poor workmanship (see 3.3).....	Visual	02003

4.2.2.3 Increment No. 1 Assembly (see dwg. 9205871 covering
a detail of dwg. 9205873.)

Categories	Defects	Method of Inspection	Code No.
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Critical: None defined

Major: None defined

Minor:	AQL 1.5 percent		
201.	Stitching missing or improper.....	Visual	03001
202.	Lacing missing or improper.....	Visual	03002
203.	Strapping missing or improper.....	Visual	03003
204.	Evidence of poor workmanship (see 3.3).....	Visual	03004

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4.2.2.4 Increment No. 2 and 3 Assembly (see dwg. 9205872 covering a detail of dwg. 9205873.)

Categories	Defects	Method of Inspection	Code No.
Critical: None defined			
Major: None defined			
Minor:	AQL 1.5 percent		
201.	Stitching missing or improper.....	Visual	04001
202.	Lacing missing or improper.....	Visual	04002
203.	Loops missing or improper.....	Visual	04003
204.	Evidence of poor workmanship (see 3.3).....	Visual	04004

4.2.2.5 Charge Assembly (see dwg. 9205873)

Categories	Defects	Method of Inspection	Code No.
Critical: None defined			
Major: None defined			
Minor:	AQL 2.5 percent		
201.	Total length.....	Gage	05001
202.	Outside diameter.....	Gage	05002
203.	Any component missing or improperly assembled.....	Visual	05003
204.	Marking misleading or unidenti- fiable.....	Visual	05004
205.	Evidence of poor workmanship (see 3.3).....	Visual	05005
206.	Handle insecure.....	Manual	05006

4.2.2.6 Container prior to sealing (see dwg. 8857288)

Categories	Defects	Method of Inspection	Code No.
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Critical: None defined

Major: None defined

Minor:	AQL 1.5 percent		
201.	Any packing component missing.....	Visual	06001
202.	Cover cannot be removed by hand.....	Visual	06002
203.	Charge cannot be removed by hand.....	Visual	06003

4.2.2.7 Container prior to sealing (see dwg. 8857288)

Categories	Defects	Method of Inspection	Code No.
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Critical: None defined

Major: None defined

Minor:	AQL 1.0 percent		
201.	Cover incompletely engaged.....	Manual	07001
202.	Marking misleading or un- identifiable.....	Visual	07002

4.2.3 Testing

4.2.3.1 Inspection Equipment.-Index of Inspection Equipment Lists Number IEL-9205873 identifies the inspection equipment required to perform the examinations and tests prescribed in this section. The contractor shall design inspection equipment in accordance with the instructions in paragraph 6.3.

4.2.3.2 Government rights to documentation.-Inspection equipment drawings and lists provided and revised in accordance with the requirements of the IEL may be used by DOD activities for design, procurement, manufacture, testing, evaluation, production and receiving inspection, overhaul, shipping, storage, identification of stock, ordering and storage of replacement parts, inspection of items at overhaul, general maintenance of equipment, construction, survey and whenever inspection equipment drawings are needed.

4.2.3.3 Supply and maintenance.-Supply and maintenance of

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the equipment listed on the IEL shall be in accordance with Specification MIL-I-45607.

4.2.3.4 Government use of contractor's inspection and test equipment.-The contractor shall make available to the Government all inspection and test equipment necessary for determining conformance with contract requirements. Personnel for operating the equipment, and verification of it's accuracy, shall be supplied by the contractor for the performance of examination or test by the Government.

5. PREPARATION FOR DELIVERY

5.1 Packing

5.1.1 Level A.-The charges shall be packed in a XM460 container conforming to dwg. 8857288.

5.2 Marking.-Marking shall be in accordance with dwg. 8857288.

6. NOTES

6.1 Ordering data.-Procurement documents shall specify title, number and date of this specification.

6.2 Inspection code numbers.-The five digit code numbers assigned to the inspections herein are to facilitate future data collection and analysis by the Government.

6.3 Inspection equipment.-The contractor shall design inspection equipment as required by the referenced Inspection Equipment Lists (IEL) in accordance with the instructions of paragraphs 6.3.1 through 6.3.7.

6.3.1 Inspection equipment lists.-Inspection equipment lists indicate the availability of inspection equipment designs by showing in the "number" column of the list of inspection equipment (OO Form 1242-3) the numbers of drawings of existing equipment designs or codes as indicated in paragraph 6.3.2. Design action required of the contractor with respect to the different types of drawings that may be listed is described in paragraphs 6.3.3 and 6.3.4. Action required

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by the contractor with respect to commercial inspection equipment is described in 6.3.5. The contractor will be required to prepare detailed drawings in accordance with 6.3.6 for all the equipment coded as "Contractor Design" in the number column. These contractor designs must be approved by the Government prior to fabrication or procuring of the equipment. Designs shall be submitted for approval as specified in 6.3.7.

6.3.2 Inspection equipment list codes.-The inspection equipment as defined in 6.3.3, 6.3.4, 6.3.5 and 6.3.6 will be designed in the IEL by the following codes:

- CDAF - Contractor's design responsibility on Army format in accordance with MIL-D-45608.
- GDCF - Contractor's design responsibility on contractor format.
- AD - Army design.
- ADMU - Army design, mandatory for use.
- CE - Commercial equipment.
- SCD - Specification control drawing.

6.3.3 Army designs.-Army designs are reflected on detailed drawings which completely depict all the information necessary for the fabrication of the item of inspection equipment. The contractor need provide no design when an Army design is listed for an item of inspection equipment. Army designs fall into two basic classifications, mandatory and non-mandatory. When an inspection equipment list references mandatory Army designs, the contractor shall comply with, and use these designs accordingly. The contractor may, however, in connection with non-mandatory designs and with the approval of the Government, design alternate inspection equipment or use comparable commercial equipment to facilitate his operations. Such contractor prepared designs or commercial equipment selections must be approved by the Government prior to fabrication or procuring of the equipment. Designs shall be submitted for approval as specified in 6.3.7.

6.3.4 Specification control drawing.-Specification control drawings depict the minimum equipment requirements in outline, descriptive, diagrammatic or pictorial form only and specify the required performance or other characteristics. Contractors must prepare detailed drawings (see 6.3.6) of their designs in support of specification control drawings. These contractor prepared

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designs must be approved by the Government prior to the fabrication or procuring of the equipment. Commercial equipment meeting the requirements of specification control drawings may be approved if described in sufficient detail to permit identification and evaluation by the Government. Designs shall be submitted for approval as specified in 6.3.7.

6.3.5 Commercial equipment.-Commercial equipment is inspection equipment that has universal application for a specific function. It is comprised of items commonly used by industry and Government. Contractors are not required to furnish drawings of commercial inspection equipment, but a list of such equipment must be approved by the Government. Lists shall be submitted for approval to the inspection element of the agency administering the contract.

6.3.6 Contractor designs.-Contractor designs are designs of inspection equipment for which the Government has assigned design responsibility to the contractor. Contractor designs shall be supported by detailed drawings which depict all information necessary to completely fabricate, calibrate and operate an item of inspection equipment. This requires that the necessary views, dimensions, materials, finish, notes, operating and calibration instructions be properly depicted in accordance with approved practices to the extent that further calculation or clarification will not be required. Contractor designs identified as CDCF may be developed on the format the contractor normally employs in his equipment design procedure provided such format reflects the detail and information specified above. Contractor designs identified as CDAF shall comply with the format and requirements of MIL-D-45608, and in addition, contain the detail and information specified above. Final approved contractor designs identified as CDCF shall be suitable for microfilming. They must be non-reproducible diazo or electrostatic prints of top quality full size with black line on white background and shall provide a legible print produced via the 35mm microfilm process. Contractor shall submit one copy of the final approved design as a rolled set or flat set.

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6.3.7 Submission of contractor designs.-Designs shall be submitted for approval to the Commanding Officer, Picatinny Arsenal, ATTN: SMUPA-ND. Design review will normally be accomplished within one month after receipt by Picatinny Arsenal. Partial submission of inspection equipment designs is permissible and encouraged. However, the Arsenal completion date for design review will be based on the date of the final submission of designs.

Custodian:
Army-MU

Preparing Activity:
Army-MU

Project No. 1320-A027