

SPECIFICATION
FOR
BATTERY, DRY (LECLANCHÉ), 4½ V, NO 3, NATO STOCK NO 6135-99-910-1142

This Supplement supersedes SUPPLEMENT NO 33 to
DEF STAN 61 -3 (PART 1), dated 19 March 1968

1. This Supplement is to be read in conjunction with the General Specification for primary batteries (Leclanché, mercury, and manganese alkaline types) contained in DEF STAN 61 - 3 (PART 1).
2. NOMINAL VOLTAGE
 - a. Cell.
1.5
 - b. Battery.
4.5 with tappings at - 1.5 and - 3
3. DIMENSIONS

Dimensions shall be in accordance with the requirements of the attached drawing.
4. MASS

Mass shall not exceed 5.5 ounces (156 grams).
5. MARKINGS

Marking shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 -3 (PART 1), clause 11. and the attached drawing.
6. CONSTRUCTION
 - a. Assembly.
 - (1) Three cylindrical cells connected in series and enclosed in an insulating container.
 - (2) Inter-cell connections shall be soldered, using wire not thinner than 0.028 in (22 s.w.g.) (0.71 mm).
 - (3) The whole assembly shall be blocked securely to prevent internal movement.
 - (4) Insulating container shall be coated externally with a smooth and continuous protective film of micro-crystalline wax.

6. b. Cell details.

(1) Size.

R12 (BS 397) or approved alternative.

(2) Zinc thickness.

Shall be not less than 0.010 in (0.25 mm).

c. Terminations.

Brass socket in accordance with the requirements of the attached drawing.

7. STORAGE AND PERFORMANCE TESTS

a. Allocation of sample batteries.

(1) For Qualification Approval testing.

Shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 6.b. except that 20 samples shall be stored for 78 weeks.

(2) For Quality Assurance testing.

Number of sample batteries supplied shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 14.b. and shall be divided between the tests shown in the table below as follows:

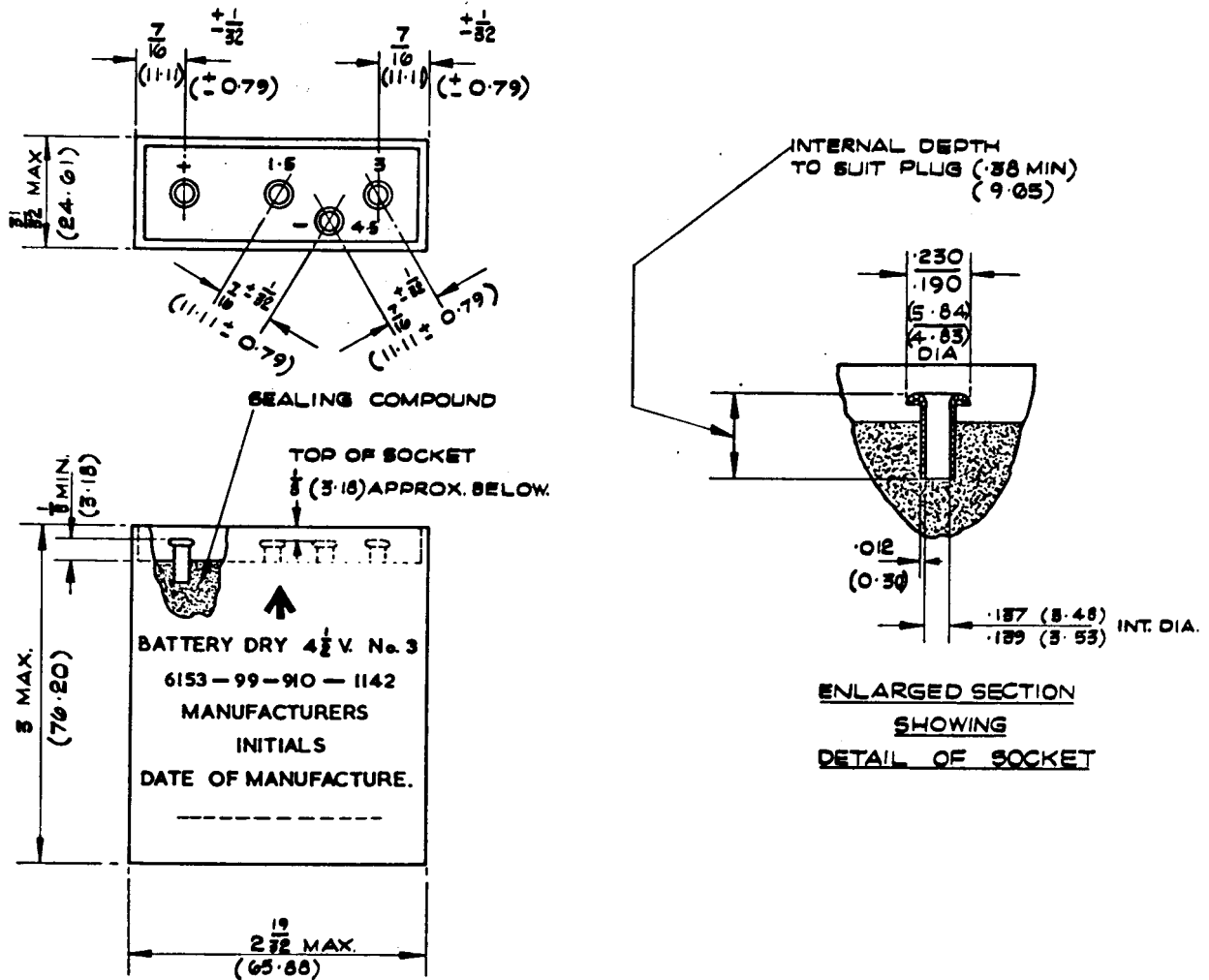
10% Jungle with the balance divided equally between the other four types of storage.

7. b. Storage conditions and performance requirements.

TYPE OF STORAGE	GENERAL SPECIFICATION CLAUSE	STORAGE PERIOD (WEEKS)	MINIMUM OFF-LOAD VOLTAGE BETWEEN TAPPINGS		
			+ TO -1.5	-1.5 To -3.0	-3.0 To -4.5
Temperate (Short term)	17.a.	4	1.5	1.5	1.5
Temperate (Long term)	17.a.	78	1.5	1.5	1.5
∕ Jungle	17.c.	8	1.5	1.5	1.5
∅ Desert	17.b.	26	1.45	1.45	1.45
Temperate (Spare)	18.d.	-	-	-	-

Notes:

1. ∕ indicates insulation resistance after Jungle storage (General Specification DEF STAN 61 - 3 (PART 1), clause 19.) to be not less than 2 megohms.
2. ∅ indicates batteries stored singly.



NOTES:-

1. ALL DIMENSIONS ARE IN INCHES WITH MM. EQUIVALENTS & SHALL INCLUDE THICKNESS OF MICRO-CRYSTALLINE WAX COATING
2. POSITIVE & NEGATIVE POLARITY MARKING SHALL BE STAMPED ON THE SURFACE OF THE SEALING COMPOUND. THE VOLTAGE OF EACH TERMINAL SHALL BE STAMPED EITHER ON THE COMPOUND, OR ALTERNATIVELY ON BOTH SIDES OF THE BATTERY CONTAINER.

THIRD ANGLE PROJECTION



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Removal of Product Qualification Approval

IMPORTANT ANNOUNCEMENT

1. This Standard contains a Product Qualification Approval (PQA) scheme. ⁱMOD policy requires that all PQA schemes are removed from Defence Standards called up in contracts placed after 1st January 1998.
2. Users of this Standard are to contact the Project Manager (PM), Equipment Support Manager (ESM) or Technical Service Authority (TSA) named in the contract or order, to identify whether there is a continuing need for an approvals scheme.
3. ⁱⁱProduct Conformity Certification (PCC) is a risk based process that replaces PQA. Once a risk has been identified PCC can be included as a contract clause. In exceptional circumstances agreement can be sought from AD/Stan for PCC to be included in a Defence Standard.
4. At the next revision of this Standard the PQA scheme will be removed.

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ⁱ Defence Council Instruction (General) 197/97; Quality Temporary Memorandum 5/98; Chief of Defence Procurement Instruction CDPI/TECH/250 (draft)

ⁱⁱ PCC is certification that a product meets its specification. When PC is required by the contract, the contractor is responsible for obtaining the necessary PCC. Certification shall be provided from a NAMAS accredited laboratory when appropriate. PCC shall apply where a Risk Assessment has been identified by the PM; ESM or TSA.