

MIL-B-49430B(ER)  
AMENDMENT 227 July 1988  
SUPERSEDING  
AMENDMENT 1  
9 June 1988MILITARY SPECIFICATION  
BATTERIES, NON-RECHARGEABLE, LITHIUM SULFUR DIOXIDE

This amendment forms a part of MIL-B-49430B(ER), dated 25 April 1988, and is approved for use within the Laboratory Command, Department of the Army and is available for use by all Departments and Agencies of the Department of Defense.

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Para. 3.5.2 C: Delete "30 days" and substitute "45 days".

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\*Para. 3.5.5.2, delete and substitute:

"3.5.5.2 Diode. Diode(s) shall be inserted in the battery as specified in the applicable specification sheet to prevent significant reverse current (see 3.1). The diode shall have the following characteristics:

Forward current,  $I_F = 3$  amperes  
Forward voltage drop,  $V_F = 0.65$  volts maximum  
Reverse current,  $I_R = 2$  milliamperes  
Reverse voltage,  $V_R = 40$  volts

When the battery is tested to assure that the diode is functioning correctly the charging current shall not exceed 2.0 milliamperes maximum (see 4.8.10.3)."

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Para. 3.14.4, delete last paragraph and substitute:

"The card shall be placed on the battery, lettering side out, preferably over the face containing the connector. The word **ATTENTION** shall be in bold lettering."

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- \* Table II, sampling plan for sulfur dioxide gas leakage inspection, delete "30 cells per cell lot" and substitute "4.5.2.1."

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- \* Para. 4.5.2, delete "on any one contract."
- \* Para 4.5.2.1, delete in its entirety and substitute:  
"4.5.2.1 Sampling plan. A cell sample lot shall consist of 30 cells selected at random per cell lot up to 15,000 cells. For cell lots exceeding 15,000 cells, an additional sample of 2 cells per thousand cells made shall be selected."

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- \* Para. 4.8.9.2.1 c , delete "Any fuse or safety device operates before the test is completed."
- \* Para. 4.8.9.2.1 e, insert the following:  
"e. Any fuse or safety device operates before the I, L, H, HT, LT, T, D or ILR test is completed. Any fuse or safety device operates before cut-off voltage is reached during IP, LP, HP, HTP, LTP, TP, DP, or ILRP test; operation of these devices after cut-off voltage is reached shall not be considered a failure."

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Para. 4.8.10.3, delete and substitute:

"4.8.10.3 Diode breakdown test. A DC power supply capable of delivering at least 2.50 ma shall be used. The voltage to be used shall be 40 (+0, -1) volts, plus the voltage obtained by multiplying the number of cells in series by 3.05. It shall be electrically connected with low impedance contacts to the connector terminals of series-connected cell strings of the battery to force reverse current flow (charging) through the individual cell string (i.e. positive to positive and negative to negative). This voltage shall be applied for a minimum of 1.0 second. This test shall be conducted immediately following the battery closed-circuit voltage test. The amount of current flowing shall not exceed the amount specified (see 3.5.5.2)."

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- \* Para 4.8.13, second sentence, delete "Each of the thirty (30) cells" and substitute "Each of the cells selected per 4.5.2.1."

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- \* Para 4.8.13.1, first sentence, delete "thirty (30)."
- \* Para 4.8.13.1a, delete "thirty (30)" and substitute "the".
- \* Para 4.8.13.1b, delete "thirty (30)", two places.

The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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