

[NOT MEASUREMENT SENSITIVE]

MIL-S-8516E

INTERIM AMENDMENT - 3

27 November 1989

USE IN LIEU OF

AMENDMENT - 2

29 September 1972

MILITARY SPECIFICATION

**SEALING COMPOUND, POLYSULFIDE RUBBER, ELECTRIC CONNECTORS
AND ELECTRIC SYSTEMS, CHEMICALLY CURED**

This interim amendment is approved for use within
the Naval Air Systems Command, Department of the Navy
with Military Specification MIL-S-8516E, dated 30 July 1971

PAGE 2

2.1, under "Federal Specifications": Add "TT-I-735, Isopropyl Alcohol"

PAGE 5

*3.3.1.3.2, line 2: Delete line 2 and substitute " to reach 1000 poises for
Type I and 2500 poises for Type II) of the mixed compound"

Add new paragraph at end of page:

"3.3.1.6 Shelf Life. After storage as specified in 4.6.2.12, the
sealing compound shall conform to the application life (3.3.1.3) and Cure A
and B hardness (Table I) requirements."

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Table I:

- * a. Under Hardness, Cure A, Type I: Delete "25" and substitute "20"
- * b. Under Hardness, Cure A, Type II: Delete "30" and substitute "25"
- c. Under Hardness, Cure B: Delete " 33 - 60" and substitute "30 - 60"
- d. After "Fluid resistance": Delete "(Type I)"

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Table II:

- * a. Under resistivity, Volume, at 77°F(25°C) Cure A and Cure B: Delete " 1×10^{11} " and " 2×10^{11} " and substitute " 1×10^{10} " and " 1×10^{10} "
- * b. Under resistivity, Surface, at 77°F(25°C) Cure A and Cure B: Delete " 1×10^{12} " and " 2×10^{12} " and substitute " 1×10^{11} " and " 1×10^{11} "
- c. Under Resistivity, Volume at 185°F: Delete "Type II - 2×10^{11} " and substitute "Type II - 2×10^{10} "
- d. Under Resistivity, Surface at 185°F: Delete " 2×10^{10} " and substitute " 2×10^{11} "
- e. Under Hydrolytic stability: change the requirement for plastic and resilient inserts from "5000" to "4000"

PAGE 9

4.3.1, line 3: After the word "agent" add "and primer, if required"

PAGE 10

4.4.3.1, line 2: Delete "two of"

Page 12

4.5.3.4, line 2: Delete "or nylon"

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* 4.6.2.1, line 4, change "4 rpm" to "10 rpm"

PAGE 14

- a. 4.6.2.1.1, line 4: Change "volumne" to "volume"
- * b. 4.6.2.1.1, delete line 10 and substitute: "a value of 1000 poises is obtained for Type I and 2500 poises for Type II compounds"
- * c. 4.6.2.3: Delete lines 8 through 10 and substitute:
 - "Class 1 - 10 hours \pm 10 minutes
 - Class 2 - 16 hours \pm 10 minutes
 - Class 3 - 32 hours \pm 10 minutes"

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4.6.2.6.1, line 3: After the words "conforming to" add "Type III of"

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4.6.2.7, under immersion fluids: After "Isopropyl alcohol" add "TT-I-735"

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- a. 4.6.2.11.2, line 6: Delete "30 days" and substitute "120 days"
- b. Add new paragraph:

4.6.2.12 Shelf life. The sealing compound and curing agent in containers as specified in Section 5, shall be stored for a period of six (6) months \pm 1 day at a temperature of $77^{\circ} \pm 2^{\circ}\text{F}$ ($23.4^{\circ} \pm 1^{\circ}\text{C}$). Upon completion of this period, the base compound and curing agent shall be mixed and tested as specified in 4.6.2.1 and 4.6.2.5. The obtained values shall conform to the requirements in 3.3.1.6."

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4.6.3.7:

- a. Line 6: Delete "30 days" and substitute "120 days"
- b. Delete the last sentence of this paragraph.

4.6.3.9, line 1: Delete "or nylon"

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Change paragraph number "5.1.1.3" to "5.1.2"

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6.6, line 2: Change "MIL-S-8616C to "MIL-S-8516C"

The margins of this amendment are marked with an asterisk 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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