

This standard has been approved by the Naval Air Systems Command, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to comply with this standard where suitable.

Clearance for .320 diameter vertical rod to enter hold-down hook (typ)		FED. SUP CLASS 6140
COVER		
TEST FIXTURE		
COVER INSTALLED ON TEST FIXTURE		
(D) Redrawn.		
P.A. Navy - AS Other Cust	TITLE COVERS, BATTERY, STORAGE, MEDIUM DUTY, GENERAL PURPOSE, AIRCRAFT	MILITARY STANDARD MS 90390(AS)
Procurement Specification MIL-E-81099	SUPERSEDES:	SHEET 1 OF 2

APPROVED 28 Sep 65 REVISED (C) 31 Aug 66 (D) 28 Jul 67

MS Part Number of Cover	Maximum Weight of Cover, Pounds	Dimensions of Test Fixture, $\pm .010$		Nominal Size of Cover and Test Fixture (ref)	FED. SUP CLASS
		A	B		6140
MS90390-1	1.00	6.629	7.057	No. 10	
MS90390-2	1.12	7.897	7.772	No. 2	
MS90390-3	1.29	7.857	10.137	No. 3	
MS90390-4	1.45	9.865	10.137	No. 4	

Notes. -

1. **Specification.** - Data for MIL-E-81099 are as follows (initial numbers refer to paragraphs of the specification):

1.2 **Classification** - The MS part numbers of the covers shall be as listed above.

3.2 **Dimensions** - Each cover shall conform to all applicable requirements of the specification and this standard when installed as shown on Sheet 1 on a rigid metal test fixture as shown on Sheet 1 and having the dimensions listed above. The dimensions of each cover shall be as shown on Sheet 1. All dimensions are in inches. All tolerances are $\pm .062$ unless otherwise specified.

3.5 **Parts.** - Each cover shall include a gasket of sponge elastomer .187 \pm .015 thick which shall bear on the entire top surface of the test fixture. The gasket shall be permanently attached to the cover, so that each cover shall consist of only one part for purposes of installation, and no part of the cover shall become separated from the rest of the cover when the cover is not installed.

(D) 3.6 **Color.** - Replace "Color Number 17875" with "Color Number 21158 (pink)".

3.7 **Weight.** - The weight of each cover shall not exceed the value listed above.

4.3.1 **Individual Tests.** - The individual tests shall be those of 4.6.1 and 4.6.2.

4.3.2 **Sampling Tests.** - One cover out of each 100 or fraction thereof shall be subjected to the tests of 4.6.3 and 4.6.4.

4.5 **Additional Test Condition.** - For the Evaluation Test, the cover shall be installed as shown on Sheet 1 on a rigid metal test fixture as shown on Sheet 1 and having the dimensions shown on sheet 1 and listed above.

4.6.4 **Evaluation.** - The cover shall be measured to determine that it conforms to the dimensions shown on sheet 1 for the cover installed on the test fixture; that no part of the cover except the hold-down hooks protrudes horizontally beyond the test fixture; and that no part of the cover extends into the test fixture more than .200. The color of the cover shall be examined for conformance to 3.6.

Add: 4.6.4.1 **Acid Resistance.** - The cover shall be immersed for 12 \pm 0.5 hours in sulfuric acid of specific gravity 1.300. The cover shall then be washed and dried, and examined to determine that no damage was done to it by this test. The cover shall then be subjected to an Evaluation Test.

P.A. Navy - AS Other Cost	TITLE COVERS, BATTERY, STORAGE, MEDIUM DUTY, GENERAL PURPOSE, AIRCRAFT	MILITARY STANDARD MS90390(AS)
Procurement Specification MIL-E-81099	SUPERSEDES:	SHEET 2 OF 2

This standard has been approved by the Naval Air Systems Command, Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 28 Sep 65 REVISED (D) See Sheet 1.