MIL-A-19521A(SHIPS) AMENDMENT - 3 15 AUGUST 1967 SUPERSEDING 1/ Amendment - 7 26 February 1963

MILITARY SPECIFICATION

ANODES, CORROSION PREVENTIVE, ZINC, AND PLUGS, ZINC ANODE RETAINING:

DESIGN OF AND INSTALLATION IN SHIPSOARD CONDENSERS AND REAT EXCHANGERS

This amendment forms a part of Military Specification MIL-A-19521A(SHIPS), dated 30 January 1961.

Page 1, paragraph 2.2: Delete and substitute:

a

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"2.2 Other publications.- The following documents form a part of this specifi-cation to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for hids or request for proposal shall apply.

NATIONAL BUREAU OF STANDARDS PUBLICATION Handbook H28 - Screw Thread Standards for Federal Services.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.)

UNIFORM FREIGHT CLASSIFICATION COMMITTEE Uniform Freight Classification Rules

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, 516 West Jackson Boulevard, Chicago, Illinois 60606.)

AMERICAN SOCIETY FOR TESTING MATERIALS

- Steam or Valve Bronze Castings. B61
- Copper-Nickel-Zinc Alloy (Nickel Silver) and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar.
 Tin Bronze and Leaded Tin Bronze Sand Castings. B122
- B143
- B150 Aluminum Bronze Rod, Bar and Shapes. B164 Nickel Copper Alloy Rod and Bar.

(Applications for copies should be addressed to the American Society for Testing Materials, 1916 Race Street, Philadelphia, Pa. 19105.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)"

- Fage 2, paragraph 3.1, third line: Delete "Bureau of Ships" and substitute "Naval Ship Engineering Center". Ē
- Page 2, paragraph 3.1.2, line 9: Delete "requirments" and substitute "require-0 ments".
- Page 2, paragraph 3.1.3.1.3: Delete last sentence and substitute: "The number of discs per pencil shall be suited to the installation, but shall not exceed seven.

Page 2, paragraph 3.1.3.2.3: Delete third sentence and substitute: "The number of discs per pencil shall be suited to the installation, but shall not exceed seven.

CHANGES FROM PREVIOUS ISSUE. THE OUTSIDE MARGINS OF THIS DOCUMENT HAVE BEEN MARKED "F" TO INDICATE WHERE CHANGES (DELETIONS, ADDITIONS, ETC.) FROM THE PREVIOUS ISSUE HAVE BEEN MADE. THIS HAS BEEN DONE AS A CONVENIENCE ONLY AND THE GOVERNMENT AS-SUMES 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 AS WRITTEN IRRESPECTIVE OF THE MARGINAL NOTATIONS AND RELATION-1/ SHIP TO THE LAST PREVIOUS ISSUE.

FSC 5340

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Page 4, table II: Delete and substitute:

"Table II - Class B material.

Material	Specification			
Copper-nickel alloy, alloy 5 (70-30); Copper-nickel alloy, composi- tion 90-10; Gun metal, alloy 1B; Valve bronze; Aluminum bronze, wrought, alloy 3, stress relieved.	ASTM-B122 MIL-C-15726 ASTM B-143 ASTM B61 ASTM B150			

Pages 5 and 6, figures 3 and 4: Delete and substitute the attached figures.

Page 7, paragraph 4.1: Delete and substitute:

"4.1 <u>Responsibility for inspection</u>.- Unless otherwise specified in the contract or purchase order, the supplier is 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."

Page 8, Figure 6, Number "1." below chart: Delete "franctional" and substitute "fractional".

Page 8, paragraph 4.2: Delete and substitute:

"4.2 Sampling for quality conformance inspection.-".

Page 8, paragraph 4.2.1, last line: Delete "acceptance".

Page 9, paragraph 4.3.1, last sentence: Delete and substitute: "Any plug in the sample containing one or more visual defects shall not be offered for delivery, and if the number of defective plugs in any sample exceeds the acceptance number for that sample, this shall be cause for rejection of the lot represented by the sample."

Page 9, paragraph 4.3.2, last sentence: Delete and substitute: "Any sample plug which does not meet the dimensional requirements shall not be offered for delivery, and if the number of nonconforming plugs in any sample exceeds the acceptance number for that sample, this shall be cause for rejection of the lot represented by the sample."

Page 9, paragraph 4.4, last sentence: Delete and substitute: "Any sample plug which does not pass the required hydrostatic test shall not be offered for delivery, and if the number of nonconforming plugs in any sample exceeds the acceptance number for that sample, this shall be cause for rejection of the lot represented by the sample."

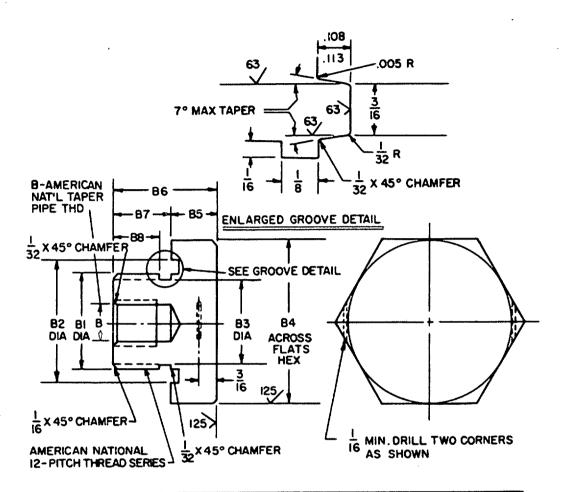
Page 10, delete "Notice" paragraph.

Preparing activity: Navy - SH (Project 5340-N009)

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SOLID ZIN	SOLID ZINC PENCIL						05	00	0.7	
IPS	OD	8	81	82	B3	B4	85	B6	87	88
3 8	0.675	3 <u>.</u> 8	1116 - 12 UN-2	1716	<u>15</u> 16	111	<u> </u> 2	1 <u> </u> 	<u>5</u> 8	<u> </u> 2
$\frac{1}{2}$	0.840	<u> </u> 2	1 516 - 12 UN-2	1116	13	1516	12	138	<u>7</u> 8	<u>3</u> 4

I. ALL FRACTIONAL DIMENSIONS TO HAVE A TOLERANCE OF $\pm \frac{1}{64}$.

2. DIMENSIONS ARE IN INCHES.

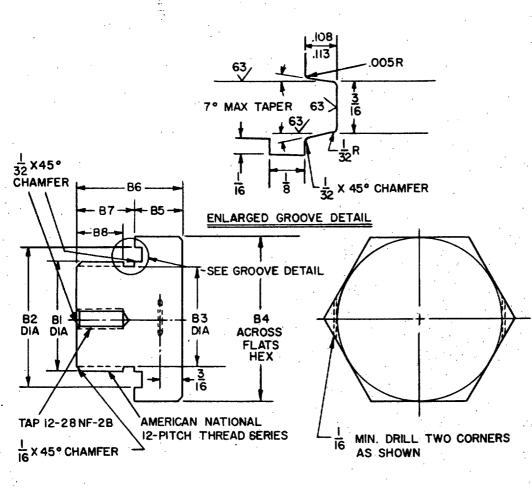
SH 5230

Figure 3 - Class A, type I support plug for ZRN anode.

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ZINC COUPON	Bl	82	B2 B3	B4	B5	86	B7	88
DIAMETER	EXTERNAL THD	92						
0.825	14-12UN-2	1 <u>7</u> 16	15 16	1 <u>11</u> 16	<u> </u> 2	118	<u>5</u> 8	<u> </u> 2
1,050	1 5 - 12 UN-2	116	1 <u>3</u> 16	115	- <u> </u> 2	138	<u>7</u> 8	<u>3</u> 4

I. ALL FRACTIONAL DIMENSIONS TO HAVE A TOLERANCE OF $\pm \frac{1}{64}$. 2. DIMENSIONS ARE IN INCHES.

SH 5231

Figure 4 - Class A, type II support plug for ZDM anode

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