

MIL-B-16541B(OS)  
Amendment 3  
10 June 1968  
Superseding  
MIL-B-16541B(AS)  
Amendment 2  
29 June 1967

## MILITARY SPECIFICATION

### BRONZE, VALVE: CASTINGS

This amendment forms a part of Military Specification MIL-B-16541B(WP) dated 3 December 1964, and has been approved by the Naval Ordnance Systems Command, Department of the Navy.

By this amendment, all references to (WP) in the basic specification shall be changed to (OS).

Page 2, under Standards: Delete MIL-STD-23.

Page 2, add the following:

"2.2 Other publications - The following document forms a part of the specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

#### American Welding Society

AWS-A2.2-58 Nondestructive Testing Symbols.

(Application for copies should be addressed to the American Welding Society, United Engineering Center, 345 East 47th Street, New York, New York 10017)."

FSC MECA

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Page 3, Table I, Chemical requirements: Delete and substitute:

"TABLE I - CHEMICAL COMPOSITION

ELEMENT	PERCENT BY WEIGHT
Copper	86.0 - 90.0
Tin	5.5 - 6.5
Zinc	3.0 - 5.0
Lead	1.0 - 2.0
Iron, max.	0.25
Nickel, max.	1.00
Phosphorus, max.	0.03
Aluminum, max.	0.005
Silicon, max.	0.005
Antimony, max.	0.20
Sulphur, max.	0.05
Other elements	
Total, max.	0.05

Page 3, Table II, Mechanical properties: Delete and substitute:

"TABLE II - MECHANICAL PROPERTIES

Tensile strength per square inch (min.)	Elongation in 2 inches (min.)
Pounds 36,000	Percent 30.0 <u>a/</u>

a/ When a cross section dimension of a continuous cast product is such that a tension test, specimen type R1, cannot be made from it (see 4.5.2.1) either type R2, R3, R4, or R5 specimens shall be prepared, and the elongation requirement shall be reduced to 22.0 percent minimum for these specimens".

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Page 6, paragraph 4.2: Delete and substitute:

"4.2 Lot - A lot shall consist of all castings produced from the same melt, and shall be further limited by the applicable provisions of 4.2.1 or 4.2.2".

Page 7 paragraph 4.3(b): Delete "Acceptance tests" and substitute "Quality Conformance Tests".

Page 7, paragraph 4.4.1: Delete the last sentence.

Page 7, paragraph 4.4.1.1, Line 4: Delete "0.0 percent defective" and substitute "4.0 percent defective".

Page 7, paragraph 4.4.2: Delete "acceptance testing" and substitute "Quality Conformance Testing".

Page 11, paragraph 4.5.3.3: Delete.

Page 11, paragraph 4.5.3.4, line 6: Delete "Military Standard MIL-STD-23" and substitute "American Welding Society publication AWS-A2.2-58."

Preparing Activity  
Navy - OS  
(Project No. MECA-N026)