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BPS

PHILIPPINE NATIONAL STANDARD

Specification for Bronze Castings

BUREAU OF PRODUCT STANDARDS
DEPARTMENT OF TRADE AND INDUSTRY

Foreword

This Philippine National Standard Specification for Bronze Castings was prepared by the Bureau of Product Standards' Technical Committee on Metal Castings (BPS/TC 33) to guide industry in the manufacture of quality bronze castings.

This standard covers the different types of bronze castings for general use together with their chemical composition, mechanical properties, test methods and marking. The requirements specified in this standard are based mostly on Japanese Industrial Standard, JIS H 5111 - Bronze Castings.

International Organization for Standardization, ISO 1338:1977 - Cast copper alloys - Composition and mechanical properties was also considered.

Specification for Bronze Castings

1 Scope and Application

This standard specifies the requirements for bronze castings for general use.

2 References

The titles of the standard publications referred to in this standard are listed on the inside back cover.

3 Types

The types and the general characteristics of castings shall be as given in Table 1.

Table 1 - Types and General Characteristics

Type	Method	General Characteristics
BCS-01	Sand mold casting, etc.	Having good fluidity and good machinability, and used for such castings as water supply and sanitary fittings, valves, pump bodies, injectors, bearings, nameplates, other general machinery parts, etc.
BCC-01	Continuous casting	
BCS-02	Sand mold casting, etc.	Having high resistance to pressure, and abrasion, and of good machinability and castability, and used for such castings as general use valves and cocks, bearings, sleeves, bushes, other general machinery parts, etc.
BCC-02	Continuous casting	
BCS-03	Sand mold casting, etc.	Having mechanical properties somewhat superior to BCS-02, and used for such castings as bearings, parts of small pumps, valves, fuel pumps, other general machinery parts, etc.
BCC-03	Continuous casting	
BCS-04	Sand mold casting, etc.	Having high resistance to pressure, abrasion and corrosion, and of high mechanical strength, and used for such castings as bearings, sleeves, bushes, pump bodies, impellers, valves, gears, ships' fittings, electrical appliance parts, other general machinery parts, etc.
BCC-04	Continuous casting	
BCS-05	Sand mold casting, etc.	
BCC-05	Continuous casting	