

METAL POWDER SINTERED BEARINGS(OIL IMPREGNATED)

ASTM Designation:B 202-64

ADOPTED,1964.

Scope

1. These specifications cover sintered, metal powder, oil-impregnated bearings of two types and four classes as follows:

(a) Grade I, Copper Base:

Class A, Copper-Tin

Class B, Copper-Lead-Tin

Note - The compositions included in grade I are intended to be equivalent so far as application is concerned, the different compositions representing the products supplied by different manufacturers for the same service.

(b) Grade II, Iron Base:

Class A, Iron-Carbon

Class B, Iron-Copper

Note - The compositions in class A represent different mechanical properties and must be identified by subclasses since they constitute separate specifications. The copper content of class B may vary over rather wide limits.

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	Grade I, Copper Base		Grade II, Iron Base			
	Class A	Class B	Class A			Class B
			A1	A2	A3	
Copper, %	87.5 to 90.6	82.6 to 88.5				7.0 to 11.0 18.0 to 22.0
Iron, %	1.0 max	1.0 max	96.25 min	95.9 min	96.5 min	remainder*
Tin, %	9.5 to 10.5	9.5 to 10.5				
Lead, %		2.0 to 4.0				
Zinc, max, %		0.75				
Nickel, max, %		0.35				
Antimony, max, %		0.25				
Silicon, max, %			0.3	0.3	0.3	
Aluminum, max, %			0.2	0.2	0.2	
Carbon, max, %	1.75	1.75				
Total other elements by difference, max, %	0.5	0.5	3.0	3.0	3.0	3.0
Combined carbon (on basis of iron only)			0.25	0.25 to 0.60	0.6 to 1.0	