

Material: IS 1458 Class IV

Standard Specification for Railway Bronze Ingots and Casting

Group: Non-Ferrous Copper Alloy

Sub Group: IS 1458 Railway Bronze Ingots and Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Ingots and Casting

Chemical Composition		
Tin	Sn %	6.000 - 8.000
Lead	Pb %	9.000 - 11.000
Zinc	Zn %	0.500 max.
Phosphorus	P %	0.050 max.
Iron	Fe %	0.300 max.
Antimony	Sb %	0.400 max.
Iron + Antimony	Fe% + Sb%	0.500 max.
Aluminium	Al %	0.010 max.
Other	Ot%	0.700 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	157 min.
Yield Strength in Mpa	-
Elongation in %	2 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
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