

# Material: IS 320 Grade HT 1

## Standard Specification for High Tensile Brass Rods and Sections

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 320 High Tensile Brass Rods and Sections

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

**Belongs to the Industry:** Rod and Section

Chemical Composition		
Tin	Sn %	0.200 - 1.000
Lead	Pb %	0.200 - 1.500
Iron	Fe %	0.200 - 1.500
Manganese	Mn %	0.250 - 2.000
Aluminium	Al %	0.200 max.
Antimony	Sb %	0.020 max.
Other	Ot%	0.500 max.
Cu + Ni	Cu%+Ni%	56.000 - 60.000
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Stress Relieving or As Roll

Mechanical Properties	
Tensile Strength in Mpa	430 min.
Yield Strength in Mpa	240 min.
Elongation in %	20 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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