

Material: IS 8500 Fe540

Standard Specification for Structural Steel - MiCroalloyed

Group: Ferrous Mild Steel Alloys

Sub Group: IS 8500 Fe540 Structural Steel - MiCroalloyed

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

Grade Belongs to the Industry: Plate and Bar

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	0.450 max.
Manganese	Mn %	1.600 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Cerium	Ce %	0.440 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	540 min.
Yield Strength in Mpa	410 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
Fe540B	IS	India	Plate and Bar
2062 E 350	IS	India	Steel, Plate, Wire, Rod, Tube and Forging
1018	SAE	USA	Steel, Plate, Wire, Rod, Tube and Forging
1018	AISI	USA	Steel, Plate, Wire, Rod, Tube and Forging
A 830 G10180	ASTM	USA	Steel, Plate, Wire, Rod, Tube and Forging
G10180	UNS	USA	Steel, Bar, Wire, Rod, Tube and Forging
SA-29 1018	ASME	USA	Steel, Plate, Wire, Rod, Tube and Forging

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