



Material - IS 8500 Fe490

Standard Specification for Structural Steel - MiCroalloyed

Group - Ferrous Mild Steel Alloys

Sub Group - IS 8500 Fe490 Structural Steel - MiCroalloyed

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

Grade Belongs to the Industry - Plate and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.		
Silicon	Si %	0.450 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.	As Raw or Normalizing	malizing
Sulphur	S %	0.040 max.		
Cerium	Ce %	0.420 max.		
Iron	Fe %	Balance		
-	-	-		_
-	-	-	Mechanical Properties	
-	/-	-	Tensile Strength in Mpa	490 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	untry Grade Belong to the Industry	
Fe490B	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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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