

# Material: DIN 1.1811

## Standard Specification for Tool Carbon Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.1811 Tool Carbon Steel Casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.280 - 0.330
Silicon	Si %	0.400 - 0.600
Manganese	Mn %	0.800 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	448 min.
Yield Strength in Mpa	310 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J03011	UNS	USA	Casting
1030	AISI	USA	Forging, Bar, Wire, and Shape
161-480	BS	British	Casting
1.5408	EN	European Union	Rod, Bars, Wire and Extrusion
SCPL1	JIS	Japan	Casting
A732 2Q	ASTM	USA	Casting
A732 2A	ASTM	USA	Casting

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