



## 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			Heat Treatment	
Carbon	C %	0.280 - 0.330	Annealing or Normalising or Hardening + Tempering	
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		
-	-	-		
-	-	-	<b>Mechanical Properties</b> 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      -	
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-	-	-		
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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

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

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