



Material - AISI 5145

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 5145 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.480	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.700 - 0.900		
Aluminium	Al %	0.020 min.		
Copper	Cu %	0.350 max.		
Molybdenum	Mo %	0.060 max.		
Niobium	Nb %	0.015		
Nickel	Ni %	0.250 max.	Mechanical Properties Tensile Strength in Mpa 650 max. Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Vanadium	V %	0.020 min.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
BW2	BS	British	Casting
BW3	BS	British	Casting
BW4	BS	British	Casting
SKS 43	JIS	Japan	Casting
1.2833	DIN	Germany	Casting
5145	SAE	USA	Casting
A 29 5145	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

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