

Material: ASTM A217 Grade C5

Standard Specification for Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A217 / A217M Steel Castings, Martensitic Stainless and Alloy, for Pressure-Containing Parts, Suitable for High-Temperature Service

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment															
Carbon	C %	0.200 max.	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	0.750 max.																
Manganese	Mn %	0.400 - 0.700																
Phosphorus	P %	0.040 max.																
Sulphur	S %	0.045 max.																
Chromium	Cr %	4.000 - 6.500																
Nickel	Ni %	0.500 max.																
Molybdenum	Mo %	0.450 - 0.650																
Copper	Cu %	0.500 max.																
Tungsten	W %	0.100 max.																
other	Ot %	1.000 max.																
Iron	Fe %	Balance																
-	-	-			<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>620 - 795</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>415 min.</td> </tr> <tr> <td>Elongation in %</td> <td>18 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>35 min.</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	620 - 795	Yield Strength in Mpa	415 min.	Elongation in %	18 min.	Reduction of Area in %	35 min.	Hardness in BHN	-
Mechanical Properties																		
Tensile Strength in Mpa	620 - 795																	
Yield Strength in Mpa	415 min.																	
Elongation in %	18 min.																	
Reduction of Area in %	35 min.																	
Hardness in BHN	-																	
Impact in Joule	-																	
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J42045	UNS	USA	Casting
A426 Garde CP5	ASTM	USA	Casting
G S 12 CrMo 19-5	ASTM	USA	Casting
G X 15 CrMo	EN	European Union	Casting
SCPH 61	JIS	Japan	Casting
1.7363	DIN	Germany	Casting
G X 12 CrMo 5	DIN	Germany	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com