

Material: ASTM A757 Grade D1N1 D1Q1

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A757 / A757M Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-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 %	0.600 max.																
Manganese	Mn %	0.400 - 0.800																
Phosphorus	P %	0.025 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	2.000 - 2.750																
Nickel	Ni %	0.500 max.																
Molybdenum	Mo %	0.900 - 1.200																
Vanadium	V %	0.030 max.																
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>585 - 795</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>380 min.</td> </tr> <tr> <td>Elongation in %</td> <td>20 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	585 - 795	Yield Strength in Mpa	380 min.	Elongation in %	20 min.	Reduction of Area in %	35 min.	Hardness in BHN	-	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22090	UNS	USA	Casting
1.7379	DIN	Germany	Casting
1.7383	EN	European Union	Forging
10 CD 9.10	AFNOR NF	France	Forging
622	BS	British	Bar
GS 18 CrMo 9 10	ONORM	Austria	Steel
8 CrMoNiNb 9-10	DIN	Germany	Steel

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