

Material: ASTM A757 Grade B2N B2Q

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 %	0.250 max.	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	0.600 max.																
Manganese	Mn %	0.500 - 0.800																
Phosphorus	P %	0.025 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	0.400 max.																
Nickel	Ni %	2.000 - 3.000																
Molybdenum	Mo %	0.250 max.																
Vanadium	V %	0.030 max.																
Copper	Cu %	0.500 max.																
Other	Ot %	1.000 max.	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>485 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>275 min.</td> </tr> <tr> <td>Elongation in %</td> <td>24 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>20 min. @ -73°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	485 min.	Yield Strength in Mpa	275 min.	Elongation in %	24 min.	Reduction of Area in %	35 min.	Hardness in BHN	-	Impact in Joule	20 min. @ -73°C
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Iron	Fe %	Balance																
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
20 N 8	AFNOR NF	France	Steel
24 Ni 8	DIN	Germany	Steel
GIN10	EN	European Union	Casting
ACPL21	JIS	Japan	Casting
G9Ni10	UNI	Italy	Casting
J22501	UNS	USA	Casting
AH60	MSZ	Hungary	Steel

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