

Material: BS 10213 EN 1.5636

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 10213 Steel Castings for Pressure Purposes

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment															
Carbon	C %	0.060 - 0.120	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	0.600 max.																
Manganese	Mn %	0.500 - 0.800																
Phosphorus	P %	0.020 max.																
Sulphur	S %	0.015 max.																
Chromium	Cr %	0.300 max.																
Nickel	Ni %	2.000 - 3.000																
Molybdenum	Mo %	0.200 max.																
Copper	Cu %	0.300 max.																
Vanadium	V %	0.050 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>480 - 630</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>280 min.</td> </tr> <tr> <td>Elongation in %</td> <td>24 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>27 min. @ -70°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	480 - 630	Yield Strength in Mpa	280 min.	Elongation in %	24 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	27 min. @ -70°C
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
20 N 8	AFNOR NF	France	Steel
24 Ni 8	DIN	Germany	Steel
G 9 Ni 10	EN	European Union	Casting
SCPL 21	JIS	Japan	Casting
G9Ni10	UNI	Italy	Casting
J22501	UNS	USA	Casting
AH 60	MSZ	Hungary	Steel

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