

# Material: BS 10213 EN 1.4408

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless 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 %	0.070 max.	Solution Annealing															
Silicon	Si %	1.500 max.																
Manganese	Mn %	1.500 max.																
Phosphorus	P %	0.040 max.																
Sulphur	S %	0.030 max.																
Chromium	Cr %	18.000 - 20.000																
Nickel	Ni %	9.000 - 12.000																
Molybdenum	Mo %	2.000 - 2.500																
Copper	Cu %	0.500 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>440 - 640</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>210 min.</td> </tr> <tr> <td>Elongation in %</td> <td>30 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>60 min. @ -196°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	440 - 640	Yield Strength in Mpa	210 min.	Elongation in %	30 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	60 min. @ -196°C
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF8M	ASTM	USA	Casting
316	AISI	USA	Bar, Wire, Strip, Slit, Plate, Sheet and Forging
1.4409	BS	British	Casting
1.4409	EN	European Union	Casting
316 S 17	BS	British	Wire for Cold Forged Fasteners
SUS 316	JIS	Japan	Hot Rolled Equal Leg Angles
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging

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