

Material: BS EN 10213 G17CrMo5-5

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS EN 10213 G17CrMo5-5 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Plate, Tubes and Forging

Chemical Composition		
Carbon	C %	0.150 - 0.230
Silicon	Si %	0.600 max.
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	1.000 - 1.500
Molybdenum	Mo %	0.450 - 0.650
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	315 min.
Yield Strength in Mpa	250 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
QSt 34-3	DIN	Germany	Plate, Tubes and Forging
C8C	ISO	International	Casting
1.0213	EN	European Union	Casting
1.0213	AFNOR NF	France	Casting
1.0213	DIN	Germany	Casting
1.0213	MSZ	Hungary	Casting
1.0213	UNI	Italy	Casting

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