

Material: ASME SA-352 Grade LC2-1

Standard Specification for Ferritic Steel Castings for Pressure-Containing Parts Suitable for Low Temperature Services

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA-352 Grade LC2-1 Ferritic Steel Castings for Pressure-Containing Parts Suitable for Low Temperature Services

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.220 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	0.550 - 0.750
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	1.350 - 1.850
Nickel	Ni %	2.500 - 3.500
Molybdenum	Mo %	0.300 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing + Tempering or Hardening + Tempering	
Mechanical Properties	
Tensile Strength in Mpa	725 - 895
Yield Strength in Mpa	550 min.
Elongation in %	18 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J42215	UNS	USA	Casting
1.6783	DIN	Germany	Casting
20NCD12M	AFNOR NF	France	Casting
T15MoCrNi30R	STAS	Romania	Casting
1.6783	EN	European Union	Casting
J42015	UNS	USA	Casting
A352 LC2-1	ASTM	USA	Casting

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