

# Material: ASTM A757 Grade B3N B3Q

## 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 Grade B3N B3Q Ferritic and Martensitic Steel Castings for Pressure-Containing and 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 %	0.150 max.	
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 %	3.000 - 4.000	
Molybdenum	Mo %	0.250 max.	Normalizing or Annealing or Hardening + Tempering
Vanadium	V %	0.030 max.	
Copper	Cu %	0.500 max.	
Other	%	1.000 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	

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 J @ -101°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
BL 2	BS	British	Casting
GS-10 Ni 14	DIN	Germany	Casting
G 9 Ni 14	EN	European Union	Casting
SCPL 31	JIS	Japan	Casting
Ao 10 Ni 14	MSZ	Hungary	Casting
G9Ni14	UNI	Italy	Steel
J31550	UNS	USA	Casting

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