



## Material - DIN 1.4955

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 1.4955 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 %	0.100 - 0.140	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	0.300 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	8.000 - 9.500		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.850 - 1.050		
Nitrogen	N %	0.030 - 0.070		
Vanadium	V %	0.180 - 0.250		
Aluminium	Al %	0.020 max.	Mechanical Properties	
Niobium	Nb %	0.060 - 0.100	Tensile Strength in Mpa	600 - 750
Iron	Fe %	Balance	Yield Strength in Mpa	460 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J8409	UNS	USA	Casting
1.4955	EN	European Union	Casting
1.4955	DIN	Germany	Casting
GX12CrMoVNbN9-1	EN	European Union	Casting
GX12CrMoVNbN9-1	UNI	Italy	Casting
GX12CrMoVNbN9-1	DIN	Germany	Casting
GX12CrMoVNbN9-1	AFNOR NF	France	Casting

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.