

## Material: AFNOR NF 15 CD9.10-M

### Standard Specification for Cast Steel and Nickel Alloy Castings for Pump, Valve and Fitting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AFNOR NF 15 CD9.10-M Cast Steel and Nickel Alloy Castings for Pump, Valve and Fitting

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

**Grade Belongs to the Industry:** Pump, Valve and Fitting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.180	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.100 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 - 650
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	28 max.
-	-	-	Hardness in HB	160 - 200
-	-	-	Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G17CrMo9-10	BS	British	Plate, Tubes and Forging
G17CrMo9-10	ISO	International	Casting
1.7379	ISO	International	Casting
SCPH 32	JIS	Japan	Casting
A 217 Grade WC9	ASTM	USA	Casting
A 217 J21890	ASTM	USA	Casting
SCPH 32-CF	JIS	Japan	Casting

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)