

# 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		
Carbon	C %	0.100 - 0.180
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

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

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