

# Material: BS 410 C 21

## Standard Specification for High Cr Alloy Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 410 C 21 High Cr Alloy Steel Castings for General Engineering Purposes

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	11.500 - 13.500
Nickel	Ni %	1.000 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	540 min.
Yield Strength in Mpa	370 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	152 - 207
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
410.0000	AISI	USA	Bar, Wire, Shapes and Forging
5351	AMS	USA	Casting
15ch13L	GOST	Russia	Casting
385 G X 12 Cr 13	SFS	Finland	Casting
A217 CA 15	ASTM	USA	Casting
A487 CA 15	ASTM	USA	Casting
A743 CA 15	ASTM	USA	Casting

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