

# Material: BS 3100 Grade 425C12

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 3100 Grade 425C12 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 %	0.060 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	11.500 - 14.000
Nickel	Ni %	3.500 - 4.500
Molybdenum	Mo %	0.400 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	755 min.
Yield Strength in Mpa	550 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2074/H3D	AS	Australia	Casting
3444 Grade 24	IS	India	Casting
A 352 Grade CA6NM	ASTM	USA	Casting
4899 Grade 10	IS	India	Casting
A 352 J91540	ASTM	USA	Casting
SA-352 Grade CA6NM	ASME	USA	Casting
SCS 6	JIS	Japan	Casting

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