

# Material: BS 3100 Grade 425C11

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 3100 Grade 425C11 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 %	0.100 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 - 13.500
Nickel	Ni %	3.400 - 4.200
Molybdenum	Mo %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	770 min.
Yield Strength in Mpa	620 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	30 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2074/H3C	AS	Australia	Casting
2074/H3CM	AS	Australia	Casting
Z 4 CN 13.4 M	AFNOR NF	France	Casting
Z 4 CND 13.4 M	AFNOR NF	France	Casting
1.4313	EN	European Union	Casting
X3CrNiMo13-4	EN	European Union	Casting
1.4313	AFNOR NF	France	Casting

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