

# Material: AS 2074/C3

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AS 2074/C3 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 %	0.250 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.060 max.
Sulphur	S %	0.060 max.
Chromium	Cr %	0.250 max.
Molybdenum	Mo %	0.150 max.
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Other	Ot %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	430 min.
Yield Strength in Mpa	230 min.
Elongation in %	17 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AM2	BS	British	Casting
1.622	ONORM	Australia	Casting
1.622	EN	European Union	Casting
1.622	BDS	Bulgaria	Casting
1.622	DIN	Germany	Casting
1.622	SS	Sweden	Casting
1.622	UNE	Spain	Casting

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