

# Material: SAE D5006

## Standard Specification For Ductile Cast Irons Castings

**Group:** Ferrous SG Iron / Ductile Iron Alloys

**Sub Group:** SAE D5006 Ductile Cast Irons Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	3.200 - 4.100
Silicon	Si %	1.800 - 3.000
Manganese	Mn %	0.100 - 1.000
Phosphorus	P %	0.050 max.
Sulphur	S %	0.035 max.
Magnesium	Mg %	0.025 - 0.060
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	500 min.
Yield Strength in Mpa	320 min.
Elongation in %	6 min.
Reduction of Area in %	-
Hardness in BHN	187 - 229
Impact in Joule	54 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
JS 500-7	ISO	International	Casting
JS 500-7	AS	Australia	Casting
EN-GJS-500-7	BS	British	Casting
EN-JS1050	UNE	Spain	Casting
5.3200	SS	Sweden	Casting
FCD 500-7	JIS	Japan	Casting
EN-JS1040	DIN	Germany	Casting

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