

Material: SAE D450

Standard Specification For Ductile Iron Castings

Group: Ferrous SG Iron / Ductile Iron Alloys

Sub Group: SAE D450 Ductile Iron 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 %	0.015 - 0.100
Sulphur	S %	0.005 - 0.035
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	448 min.
Yield Strength in Mpa	310 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in BHN	156 - 217
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
JS 450-10	ISO	International	Casting
JS 450-10	AS	Australia	Casting
A 536 65-45-12	ASTM	USA	Casting
D4512	SAE	USA	Casting
EN-GJS-450-10	BS	British	Casting
EN-JS1040	UNE	Spain	Casting
5.3107	DIN	Germany	Casting

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