

Material: SAE D700

Standard Specification For Ductile Cast Irons Castings

Group: Ferrous SG Iron / Ductile Iron Alloys

Sub Group: SAE D700 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	700 min.
Yield Strength in Mpa	425 min.
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in BHN	241 - 302
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
JS 700-2	ISO	International	Casting
JS 700-2	AS	Australia	Casting
A 536 100-70-03	ASTM	USA	Casting
D7003	SAE	USA	Casting
EN-GJS-700-2	UNE	Spain	Casting
EN-GJS-700-2	SS	Sweden	Casting
5.3300	EN	European Union	Casting

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