

## Material: SAE D400

### Standard Specification For Spheoidal Graphiite Cast Irons Castings

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

**Sub Group:** SAE D400 Spheoidal Graphiite Cast Irons Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	3.200 - 4.100	As-Cast	
Silicon	Si %	1.800 - 3.000		
Manganese	Mn %	0.100 - 1.000		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b>	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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-	-	-		
-	-	-		
			<b>Mechanical Properties</b>	
			Tensile Strength in Mpa	400 min.
			Yield Strength in Mpa	250 min.
			Elongation in %	18 min.
			Reduction of Area in %	-
			Hardness in BHN	143 - 170
			Impact in Joule	120 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
JS 400-18	ISO	International	Casting
JS 400-18	AS	Australia	Casting
A 536 60-40-18	ASTM	USA	Casting
D4018	SAE	USA	Casting
5.3105	EN	European Union	Casting
EN-GJS-400-18	UNE	Spain	Casting
SG 400 I 18	IS	India	Casting

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