

Material: SAE D4018

Standard Specification For Spheoidal Graphiite Cast Irons Castings

Group: Ferrous SG Iron I Ductile Iron Alloys

Sub Group: SAE D4018 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		
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-	-	-	Mechanical Properties 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	
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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
D400	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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