

## Material - SAE D5504

## **Standard Specification For Ductile Cast Irons Castings**

Group - Ferrous SG Iron I Ductile Iron Alloys

Sub Group - SAE D5504 Ductile 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	Р%	0.050 max.		
Sulphur	S %	0.035 max.		
Magnesium	Mg %	0.025 - 0.060		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	4 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	217 - 269
-	-	-	Impac <mark>t in Joule</mark>	40 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
JS 550-5	ISO	International	Casting	
JS 550-5	AS	Australia	Casting	
A 536 80-55-06	ASTM	USA	Casting	
D550	SAE	USA	Casting	
FCD 600-3	JIS	Japan	Casting	
EN-JS1092	UNI	Italy	Casting	
JS 550-5 C	ISO	International	Casting	

## Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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