



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - BS EN-GJS-450-10

### Standard Specification For Spheroidal Graphite Cast Irons Castings

Group - Ferrous SG Iron I Ductile Iron Alloys

Sub Group - BS EN-GJS-450-10 Spheroidal Graphite 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 %	-	As-Cast			
Silicon	Si %	-				
Manganese	Mn %	-				
Phosphorus	P %	-				
Sulphur	S %	-				
Chromium	Cr %	-				
Nickel	Ni %	-				
Copper	Cu %	-				
Iron	Fe %	-				
-	-	-				
-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 min.		
-	-	-	Yield Strength in Mpa	300 min.		
-	-	-	Elongation in %	8 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	160 - 210		
-	-	-	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
D450	SAE	USA	Casting
D4512	SAE	USA	Casting
EN-JS1040	UNE	Spain	Casting
5.3107	DIN	Germany	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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**