GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A27 Grade 485-275

Standard Specification for Steel Castings, Carbon, for General Application

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A27 Grade 485-275 Steel Castings, Carbon, for General Application

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.250 max.
Manganese	Mn %	1.200 max.
Silicon	Si %	0.800 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.500 max.
Nickel	Ni %	0.500 max.
Molybdenum	Mo %	0.250 max.
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	275 min.
Elongation in %	22 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J02501	UNS	USA	Casting
3755 270-480W	ISO	International	Casting
1504 161-430	B.S.	United Kingdom	Casting
3100 A 1	B.S.	United kingdom	Casting
83152 LII 450	PN	Poland	Casting
600 OT 450-3	STAS	Romania	Casting
A 27 Grade 70-40	ASTM	USA	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

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.