GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A159 Grade G3500b

Standard Specification for Automotive Gray Iron Castings

Group - Ferrous Gray Iron Alloys

Sub Group - ASTM A159 Grade G3500b Automotive Gray Iron Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	3.400 min.
Silicon	Si %	1.300 - 1.800
Manganese	Mn %	0.600 - 0.900
Sulphur	S %	0.120 max.
Phosphorus	P %	0.150 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	241 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	207 - 255
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
F10010	UNS	USA	Casting
F10011	UNS	USA	Casting
J 431 G3500b	SAE	USA	Casting
J 431 G3500c	SAE	USA	Casting
A 159 G3500c	ASTM	USA	Casting
A 159 G3500a	ASTM	USA	Casting
4k6	B.S.	United Kingdom	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.