GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A439 Type D-5S

Standard Specification for Austenitic Ductile Iron Castings

Group - Ferrous Ductile Iron Alloys

Sub Group - ASTM A439 Type D-5S Austenitic Ductile Iron Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	2.300 max.
Silicon	Si %	4.900 - 5.500
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.080 max.
Nickel	Ni %	34.000 - 37.000
Chromium	Cr %	1.750 - 2.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Stress Relieved

Mechanical Properties	
Tensile Strength in Mpa	449 min.
Yield Strength in Mpa	207 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HB	131 - 193
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 32-301 FGS Ni35 Si5 Cr2	AFNOR NF	France	Casting
1694 GGG-NiSiCr 35 5 2	DIN	Germany	Casting
1694 0.7688	DIN	Germany	Casting
G 5510 FCDA-NiSiCr 35 5 2	JIS	Japan	Casting
3468 S5S	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.