GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-439 Grade D-5

Standard Specification for Austenitic Ductile Iron Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-439 Grade D-5 Austenitic Ductile Iron Castings

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

Grade Belongs to the Industry - Castings

Chemical Composition		
Carbon	C %	2.400 max.
Silicon	Si %	1.000 - 2.800
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.080 max.
Nickel	Ni %	34.000 - 36.000
Chromium	Cr %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Stress Relieving or Annealing

Mechanical Properties	
Tensile Strength in Mpa	380 min.
Yield Strength in Mpa	210 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	135 - 185
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
F43006	UNS	USA	Castings
1694 GGG-Ni 35	DIN	Germany	Castings
1694 0.7683	DIN	Germany	Castings
G 5510 FCDA-Ni 35	JIS	Japan	Castings
A 439 Type D-5	ASTM	USA	Castings
32-301 FGL Ni35	AFNOR NF	France	Castings
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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.