GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 2749 Grade ASG Ni 20 Cr 2

Standard Specification for Austenitic Iron Castings

Group - Ferrous Austenitic SG Iron

Sub Group - IS 2749 Grade ASG Ni 20 Cr 2 Austenitic Iron Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	3.000 max.
Silicon	Si %	1.500 - 3.000
Manganese	Mn %	0.500 - 1.500
Nickel	Ni %	18.000 - 22.000
Chromium	Cr %	1.000 - 2.500
Phosphorus	P %	0.080 max.
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	370 min.
Proof Strength in Mpa	210 min.
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HB	200 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
F41002	UNS	USA	Casting
NF A 32-301 FGL Ni20 Cr2	AFNOR NF	France	Casting
NF A 32-301 FGS Ni20 Cr2	AFNOR NF	France	Casting
NF A 32-211 FGS Ni20 Cr2	AFNOR NF	France	Casting
NF A 32-301 FGS Ni20 Cr2 Nb0.15	AFNOR NF	France	Casting
A 436 Type 2	ASTM	USA	Casting
3468 F2	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.