GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS 1554 420S37

Standard Specification for Stainless and Heat-resisting Steel Round Wire

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 1554 420S37 Stainless and Heat-resisting Steel Round Wire

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

Grade Belongs to the Industry - Steel and Round Wire

Chemical Composition		
Carbon	C %	0.200 - 0.280
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Sulphur	S %	0.030 max.
Phosphorus	P %	0.040 max.
Chromium	Cr %	12.000 - 14.000
Nickel	Ni %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Soft Annealing

Mechanical Properties	
Tensile Strength in Mpa	820 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
NF S 90-450 Z 20 C 13	AFNOR NF	France	Steel
970-3 420 S 37	B.S.	United Kingdom	Steel
970-1 420 S 37	B.S.	United Kingdom	Steel
970-3 420 S 29	B.S.	United kingdom	Steel
10088-3 X6Cr13	AFNOR NF	France	Steel
10088-2 X 6 Cr 13	UNI	Italy	Steel
6258 403 S 17	B.S.	United Kingdom	Steel and Bar

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.