GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10095 2.4889 (NiCr28FeSiCe)

Standard Specification for Heat Resisting Steels and Nickel Alloys

Group - Non-Ferrous Nickel Alloys

Sub Group - BS EN 10095 2.4889 (NiCr28FeSiCe) Heat Resisting Steels and Nickel Alloys

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.050 - 0.120
Manganese	Mn %	1.000 max.
Silicon	Si %	2.500 - 3.000
Phosphorus	P %	0.020 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	26.000 - 29.000
Cobalt	Co %	1.500 min.
Iron	Fe %	21.000 - 25.000
Copper	Cu %	0.500 max.
Cerium	Ce %	0.030 - 0.090
Nickel	Ni %	45.000 min.
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	620 - 820
Proof Strength in Mpa	240 min.
Elongation in %	11.9 min.
Reduction of Area in %	35 min.
Hardness in HB	220 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
N06045	UNS	USA	Rod, Bar and Wire
B 166 UNS N06045	ASTM	USA	Rod, Bar and Wire
B 167 UNS N06045	ASTM	USA	Pipe and Tube
B 168 UNS N06045	ASTM	USA	Plate, Sheet and Strip
B 163 UNS N06045	ASTM	USA	Tubing
SB-163 UNS N06045	ASME	USA	Tubing
SB-168 UNS N06045	ASME	USA	Plate, Sheet and Strip

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.