

Material - ASTM B 564 R20033

Standard Specification for Nickel Alloy Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 564 R20033 Nickel Alloy Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.015 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	31.000 - 35.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	0.500 - 2.000		
Phosphorus	P %	0.020 max.		
Nitrogen	N %	0.350 - 0.600		
Copper	Cu %	0.300 - 1.200		
Nickel	Ni %	30.000 - 33.000	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	750 min.
-	-	-	Yield Strength in Mpa	380 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 649 R20033	ASTM	USA	Bar and Wire
B 462 R20033	ASTM	USA	Pipe Flanges, Forged Fittings and Valve
B 619 R20033	ASTM	USA	Pipe
B 622 R20033	ASTM	USA	Pipe and Tube
B 626 R20033	ASTM	USA	Tube
B 625 R20033	ASTM	USA	Plate, Sheet and Strip
SB-649 R20033	ASME	USA	Bar and Wire

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.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.