



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-163 N04400

Standard Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-163 N04400 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube

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

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.		
Copper	Cu %	28.000 - 34.000		
Sulphur	S %	0.024 max.		
Iron	Fe %	2.500 max.		
Nickel	Ni %	63.000 min.		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	483 - 621
-	-	-	Yield Strength in Mpa	193 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	75 - 97
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 164 N04400	ASTM	USA	Rod, Bar and Wire
B 165 N04400	ASTM	USA	Pipe and Tube
B 564 N04400	ASTM	USA	Forging
B 127 N04400	ASTM	USA	Plate, Sheet and Strip
B 725 N04400	ASTM	USA	Pipe
SB-163 N04400	ASME	USA	Tube
SB-165 N04400	ASME	USA	Pipe and Tube

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.

ONE STOP SOLUTION FOR METAL PARTS