This page is mainly introduced the B 161 N02200 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of B 161 N02200,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Superalloys B 161 N02200

B 161 N02200 Standard Number:		
ITEM	Standard Number	Descriptions
1	B 161 (2005)	Standard Specification for Nickel Seamless Pipe and Tube

B 161 N02200 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C	99.0	
Cu		0.25
Fe		0.40
Mn		0.35
C		0.02
Si		0.35
S		0.01

C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Alloy 200 (UNS N02200) is a commercially pure wrought nickel, with good mechanical properties and an excellent resistance to many corrosive environments. Alloy 200 has good thermal, electrical and magnetostrictive properties. Alloy 201 is exactly the same but with less carbon for hotter applications. Both Alloy 200 and Alloy 201 are generally used in food processing equipment, chemical shipping drums, caustic handling equipment and piping, electronic parts, aerospace and missile components

Standard Specification for Nickel Seamless Pipe and Tube

B 161 N02200 Physical Properties		
Tensile strength	115-234	σb/MPa
Yield Strength	23	σ 0.2 ≥/MPa
Elongation	65	δ5≥ (%)
ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

B 161 N02200 Mechanical Properties		
Tensile strength	231-231	σb/MPa
Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

B 161 N02200 Heat Treatment Regime				
Annealing	**Quenching**	**Tempering**	**Normalizing**	**Q & T**
√	√	√	√	√

B 161 N02200 Range of products				
Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	Φ8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting

Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID-WASHED

We can produce Superalloys the specifications follows: