

This page is mainly introduced the NiCr22Mo9Nb chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of NiCr22Mo9Nb, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Grades Stainless Steels NiCr22Mo9Nb

NiCr22Mo9Nb Standard Number:				
ITEM	EM Standard Number Descriptions			
1	ISO 6207 (1992)	Seamless nickel and nickel alloy tube		
2	ISO 6208 (1992)	Nickel and nickel alloy plate, sheet and strip		
3	ISO 9722 (1992)	Nickel and nickel alloys - Composition and forms of wrought products		
4	ISO 9723 (1992)	Nickel and nickel alloy bars		
5	ISO 9724 (1992)	Nickel and nickel alloy wire and drawing stock		
6	6 ISO 9725 (1992) Nickel and nickel alloy forgings			

NiCr22Mo9Nb Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.10		
Si		0.50		
Mn		0.50		
P		0.015		
S		0.015		
Cr	20.00	23.00		
Ni	58.00			
Мо	8.00	10.00		
Nb+Ta	3.15	4.15		
Ti		0.40		
Ai		0.40		
Со		1.00		
Fe		5.00		

NiCr22Mo9Nb Physical Properties			
Tensile strength	115-234	σb/MPa	



NiCr22Mo9Nb Chemical information, Mechanical propertiesPhysical properties, Mechanical properties, Heat treatment, and

Micro structure

Yield Strength	23	σ 0.2 ≥/MPa
Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

NiCr22Mo9Nb 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	-	

NiCr22Mo9Nb Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
V	√	√	√	√

NiCr22Mo9Nb 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	Ф8-1200mm*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 Stainless Steels the specifications follows: