

This page is mainly introduced the X2CrNiMnMoNb21-16-5-3 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X2CrNiMnMoNb21-16-5-3, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel X2CrNiMnMoNb21-16-5-3

X2CrNiMnMoNb21-16-5-3 Standard Number:

ITEM	Standard Number	Descriptions
1	WL 1.3964-1 (2008)	Non-magnetizable austenitic cast steel G-X2CrNiMnMoNb 21-16-5-3 Part 4: Castings
2	WL 1.3964-2 (2004)	Non-magnetizable austenitic steel X2CrNiMnMoNb 21-16-5-3 Part 2: Bars and sections
3	WL 1.3964-3 (2003)	Non-magnetizable austenitic steel X2CrNiMnMoNb 21-16-5-3 Part 3: Forgings
4	WL 1.3964-6 (2008)	Non-magnetizable austenitic steel X2CrNiMnMoNb 21-16-5-3 Part 6: Seamless rolled rings

X2CrNiMnMoNb21-16-5-3 Chemical composition (mass fraction) (wt.%)

Chemical	Min.(%)	Max.(%)							
C		0.030							
Si		1.00							
Mn	4.00	6.00							
P		0.025							
S		0.010							
Cr	20.00	21.50							
Ni	15.00	17.00							
Mo	3.00	3.50							
Nb		0.25							
N	0.200	0.35							
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Non-magnetizable austenitic cast steel □G-X2CrNiMnMoNb 21-16-5-3 Part 4: Castings

X2CrNiMnMoNb21-16-5-3 Physical Properties

Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	123-321	-
HRC	30	-

X2CrNiMnMoNb21-16-5-3 Mechanical Properties

Tensile strength	231-231	σ_b /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	235-268	-
HRC	30	-

X2CrNiMnMoNb21-16-5-3 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

X2CrNiMnMoNb21-16-5-3 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 Specialsteel the specifications follows: