

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-X2CrNiMnMoNNb 21-16-5-3 Part 4: Castings

### X2CrNiMnMoNNb21-16-5-3 Physical Properties

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

### X2CrNiMnMoNNb21-16-5-3 Mechanical Properties

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

### X2CrNiMnMoNNb21-16-5-3 Heat Treatment Regime

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

### X2CrNiMnMoNNb21-16-5-3 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:**