

This page is mainly introduced the X 2 CrNiN 23 4 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X 2 CrNiN 23 4, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Metals X 2 CrNiN 23 4

X 2 CrNiN 23 4 Standard Number:				
Area	Standard	Standard Code	Standard Year	Descriptions
Germany	DIN	DIN EN 10088-1	2014	Stainless steels. List of stainless steels

X 2 CrNiN 23 4 Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	Similar (%)
N	0.0500	0.2000	-
Cu	0.1000	0.6000	-
Mo	0.1000	0.6000	-
Ni	3.5000	5.5000	-
Cr	22.0000	24.0000	-
P	-	0.0350	-
S	-	0.0150	-
Mn	-	2.0000	-
Si	-	1.0000	-
C	-	0.0300	-
Si	-	1.0000	-
S	-	0.0150	-
P	-	0.0350	-
Ni	3.5000	5.5000	-
N	0.0500	0.2000	-
Mo	0.1000	0.6000	-
Mn	-	2.0000	-
Cu	0.1000	0.6000	-
Cr	22.0000	24.0000	-
C	-	0.0300	-
Si	-	1.0000	-

S	-	0.0150	-
P	-	0.0350	-
Ni	3.5000	5.5000	-
N	0.0500	0.2000	-
Mo	0.1000	0.6000	-
Mn	-	2.0000	-
Cu	0.1000	0.6000	-
Cr	22.0000	24.0000	-
C	-	0.0300	-
Si	-	1.0000	-
S	-	0.0150	-
P	-	0.0350	-
Ni	3.5000	5.5000	-
N	0.0500	0.2000	-
Mo	0.1000	0.6000	-
Mn	-	2.0000	-
Cu	0.1000	0.6000	-
Cr	22.0000	24.0000	-
C	-	0.0300	-
Si	-	1.0000	-
S	-	0.0150	-
P	-	0.0350	-
Ni	3.5000	5.5000	-
N	0.0500	0.2000	-
Mo	0.1000	0.6000	-
Mn	-	2.0000	-
Cu	0.1000	0.6000	-
Cr	22.0000	24.0000	-
C	-	0.0300	-
Si	-	1.0000	-
S	-	0.0150	-
P	-	0.0350	-
Ni	3.5000	5.5000	-
N	0.0500	0.2000	-
Mo	0.1000	0.6000	-
Mn	-	2.0000	-
Cu	0.1000	0.6000	-

Cr	22.0000	24.0000	-
C	-	0.0300	-

X 2 CrNiN 23 4 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	-

X 2 CrNiN 23 4 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	-

X 2 CrNiN 23 4 Heat Treatment Regime

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

X 2 CrNiN 23 4 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
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We can produce Metals the specifications follows: