

This page is mainly introduced the Z3CND17-11Az chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Z3CND17-11Az, 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 Z3CND17-11Az

Z3CND17-11Az Standard Number:		
ITEM	Standard Number	Descriptions
1	NF A 35-573	Stainless steels for general purposes. Plates, wide strips and strips
2	NF A 36-209	Iron and steel. Austenitic and austenitic-ferritic stainless steels plates for boilers and pressure vessels
3	NF A 49-244	Steel tubes - Welded austenitic stainless and austenitic ferritic steel rolled tubes for pressure service - Dimensions, technical conditions for delivery

Z3CND17-11Az Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C		0.030
Si		0.75
Mn		2.00
P		0.040
S		0.015
Cr	16.00	18.00
Mo	2.00	2.50
Ni	10.00	12.00
N	0.12	0.20

Z3CND17-11Az 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	-

Z3CND17-11Az 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	-

Z3CND17-11Az Heat Treatment Regime

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

Z3CND17-11Az 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 Stainless Steels the specifications follows: