

**This page is mainly introduced the Z6CNT18-10 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Z6CNT18-10, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades Special Steel Z6CNT18-10

Z6CNT18-10 Standard Number:		
ITEM	Standard Number	Descriptions
1	NF A 35-578	Iron and steel. Stainless steel for high temperature application
2	NF A 35-573	Stainless steels for general purposes. Plates, wide strips and strips
3	NF A 36-607	Austenitic stainless steel parts obtained by flat die forging or drop forging for boilers and pressure vessels. Grade and types
4	NF A 35-559	Iron and steel. Heat treatable special steels and stainless steels for externally threaded fasteners for use at low temperatures
5	NF A 35-574	Iron and steel. Stainless steel for general purposes. Semi-finished products, bars and wire rod
6	NF A 36-209	Iron and steel. Austenitic and austenitic-ferritic stainless steels plates for boilers and pressure vessels
7	NF E 29-043	Non alloy and alloy steel bolting for pressure equipment - Specifications

Z6CNT18-10 Chemical composition (mass fraction) (wt.%)									
Chemical		Min.(%)				Max.(%)			
C						0.060			
Si						0.75			
Mn						2.00			
P						0.040			
S						0.015			
Cr		17.00				19.00			
Mo									
Ni		9.00				12.00			
Ti		5(C+N)				0.70			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

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Non alloy and alloy steel bolting for pressure equipement - Specifications

### Z6CNT18-10 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	-

### Z6CNT18-10 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	-

### Z6CNT18-10 Heat Treatment Regime

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

### Z6CNT18-10 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:**