

**This page is mainly introduced the X 2 NiCr 18 16 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X 2 NiCr 18 16, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Metals X 2 NiCr 18 16

X 2 NiCr 18 16 Standard Number:				
Area	Standard	Standard Code	Standard Year	Descriptions
Germany	DIN	--	0	High alloyed NiCr stainless steel

X 2 NiCr 18 16 Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	Similar (%)
Si	0.3000	0.5000	-
S	-	0.0300	-
P	-	0.0450	-
Ni	17.5000	18.5000	-
Mn	0.6000	0.9000	-
Cr	15.5000	16.5000	-
C	-	0.0300	-

X 2 NiCr 18 16 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	-

X 2 NiCr 18 16 Mechanical Properties		
Tensile strength	231-231	$\sigma_b$ /MPa

Yield Strength	154	$\sigma_{0.2} \geq / \text{MPa}$
Elongation	56	$\delta 5 \geq (\%)$
$\psi$	-	$\psi \geq (\%)$
Akv	-	$Akv \geq / \text{J}$
HBS	235-268	-
HRC	30	-

### X 2 NiCr 18 16 Heat Treatment Regime

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

### X 2 NiCr 18 16 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	$\Phi 8$ -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 Metals the specifications follows:**