

This page is mainly introduced the 00Cr18Ni5Mo3Si2 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 00Cr18Ni5Mo3Si2, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 00Cr18Ni5Mo3Si2

### 00Cr18Ni5Mo3Si2 Standard Number:

ITEM	Standard Number	Descriptions
1	GB/T 1220 (1992)	Stainless steel bars
2	GB/T 14975 (2002)	Stainless steel seamless tubes for structures
3	GB/T 14976 (2002)	Stainless steel seamless tubes for fluid transport
4	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates
5	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates
6	JB 4728 (2000)	Stainless steel forgings for pressure vessels

### 00Cr18Ni5Mo3Si2 Chemical composition(mass fraction)(wt.%)

Chemical		Min.(%)		Max.(%)					
C				0.030					
Si		1.30		2.00					
Mn		1.00		2.00					
P				0.035					
S				0.030					
Ni		4.50		5.50					
Cr		18.00		19.50					
Mo		2.50		3.00					
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

### 00Cr18Ni5Mo3Si2 Stainless steel bars

### 00Cr18Ni5Mo3Si2 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	-

### 00Cr18Ni5Mo3Si2 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	-

### 00Cr18Ni5Mo3Si2 Heat Treatment Regime

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

### 00Cr18Ni5Mo3Si2 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

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