

This page is mainly introduced the 0Cr13 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 0Cr13, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 0Cr13

0Cr13 Standard Number:		
ITEM	Standard Number	Descriptions
1	GB 2270 (1980)	Seamless tubes
2	GB/T 1220 (1992)	Stainless steel bars
3	GB/T 12770 (2002)	Welded stainless steel tubes for machine structures
4	GB/T 12771 (2000)	Welded stainless steel pipes for liquid delivery
5	GB/T 14975 (2002)	Stainless steel seamless tubes for structures
6	GB/T 14976 (2002)	Stainless steel seamless tubes for fluid transport
7	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates
8	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates
9	GB/T 4239 (1991)	Cold rolled stainless steel and heat resisting steel strips
10	GB/T 4356 (2002)	Stainless steel wire rods
11	JB 4728 (2000)	Stainless steel forgings for pressure vessels

0Cr13 Chemical composition(mass fraction)(wt.%)									
Chemical		Min.(%)				Max.(%)			
C						0.08			
Si						1.00			
Mn						1.00			
P						0.035			
S						0.030			
Ni						0.60			
Cr		11.50				13.50			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

## 0Cr13

### 0Cr13 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	-

### 0Cr13 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	-

### 0Cr13 Heat Treatment Regime

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

### 0Cr13 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

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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 Specialsteel the specifications follows:**