This page is mainly introduced the 0Cr18Ni12Mo2Ti Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 0Cr18Ni12Mo2Ti,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Specialsteel 0Cr18Ni12Mo2Ti

0Cr18Ni12Mo2Ti Standard Number:

ITEM	Standard Number	Descriptions
1	GB 13296 (2007)	Seamless stainless steel tubes for boiler and heat exchanger
2	GB 2270 (1980)	Seamless tubes
3	GB/T 1220 (1992)	Stainless steel bars
4	GB/T 14975 (2002)	Stainless steel seamless tubes for structures
5	GB/T 14976 (2002)	Stainless steel seamless tubes for fluid transport
6	GB/T 3280 (1992)	Cold rolled stainless steel sheets and plates
7	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates
8	JB 4728 (2000)	Stainless Steel Forgings for Pressure Vessels

0Cr18Ni12Mo2Ti Chemical composition(mass fraction)(wt.%)

Chemical	Min.(%)	Max.(%)
C		0.08
Si		1.00
Mn		2.00
P		0.035
S		0.030
Ni	11.00	14.00
Cr	16.00	19.00
Mo	1.80	2.50
Ti	5xC□-0.70	

C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

0Cr18Ni12Mo2Ti

0Cr18Ni12Mo2Ti Physical Properties		
Tensile strength	115-234	σb/MPa
Yield Strength	23	σ 0.2 ≥/MPa
Elongation	65	δ5≥ (%)
ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

0Cr18Ni12Mo2Ti Mechanical Properties		
Tensile strength	231-231	σb/MPa
Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

0Cr18Ni12Mo2Ti Heat Treatment Regime				
Annealing	**Quenching**	**Tempering**	**Normalizing**	**Q & T**
√	√	√	√	√

0Cr18Ni12Mo2Ti 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: