

4Cr3 1.4419 High carbon martensite Stainless Steel

High carbon martensite stainless steel is TISCO special product, main apply to knife-blade and measure industry.

Characteristic:

- The element and properties are stable,.
- High purity of molten steel, the content of impurity and Harmful Heavy Metals could be deduced greatly.
- Uniform microstructure.

Conventional Products

Grade	Specifications (mm)		Weight MT	Standard	Application
	Thickness	Width			
4Cr13 X38CrMo14 1.4419 5Cr15MoV 1.4416 6Cr13	2B: 1.0-3.0mm No.1: 3.0-6.0mm Black: 3.0-9.0mm	2B/No.1/Black surface: 1000-1219mm	9-28MT	Q/T128-2011	knife-blade measure industry

Chemical Composition: Mass Percentage (%)

TSSN1:

Grade		C	Si	Mn	Cr	P	S	Others
4Cr13	Standard	0.36-0.45	0.8max	0.8max	12.0-14.0	0.040	0.030	Ni 0.60
	Testing	0.41	0.50	0.40	13.5	0.025	0.002	Ni 0.05
X38CrMo14 1.4419	Standard	0.36-0.42	1.0max	1.0max	13.0-14.5	0.040	0.015	Mo0.60-1.00
	Testing	0.39	0.50	0.50	13.90	0.025	0.002	Mo 0.92
5Cr15MoV 1.4416	Standard	0.45-0.55	1.0max	1.0max	14.0-15.0	0.040	0.015	Mo0.50-0.80 V 0.10-0.20
	Testing	0.52	0.50	0.50	14.5	0.025	0.002	Mo 0.60 V 0.12
6Cr13	Standard	0.60-0.70	1.0max	1.0max	12.5-14.0	0.040	0.030	-
	Testing	0.64	0.50	0.50	13.4	0.025	0.002	-

* All product have match the European Union's RoHS Directives for Plumbum, Cadmium, Hydrargyrum and Hexavalent Chromium requirements.

**Mechanical Properties**

Mechanical properties at ambient temperature

Grade		Rp0.2 MPa	Rm MPa	HRB annealed	A %	HRC quenching
4Cr13	Standard	Min 225	Min590	/	Min 15	/
	Testing	365	630	90	27	53-56
X38CrMo14 1.4419	Standard	/	Max760	Max97	Min 15	/
	Testing	450	680	94	26	54-57
5Cr15MoV 1.4416	Standard	/	Max850	Max100	Min 12	/
	Testing	450	730	95	24	54-57
6Cr13	Standard	/	Min540	Max95	Min 15	/
	Testing	450	710	92	23	57-60

Note: Quenching hardness at 1050℃ quenching+ air cold conditions.

Service Promise

- To provide consumers with the personalized designs on composition, propertiesproperty, packing, coil weight and quality certificate.
- Technical support to customers in material selection fabrication.
- Accurate and prompt delivery
- Response to customer' s claim within 24 hours.

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