



API 2W Gr.50/Gr.60 steel work / steel structure / steel machining parts

API 2W Gr.50/Gr.60 steel work/steel structure/steel machining parts are mainly used in the managed node, with a plus Zhu board structure and other cross site, In these parts of the steel sheet in the thickness direction (Z-direction) shall be subjected to tensile loading.

API 2W Gr.50/Gr.60 steel specification covers high strength steel plates, use in welded construction of offshore structures, in selected critical portions which must resist impact,

plastic fatigue loading, and lamellar tearing, grade 50 up to 6in. thick. (150mm), grade 60 up to 4in. (100mm).

API 2W Gr.50/Gr.60 steel chemical composition

Element	Gr.50	Gr.60
C max	0.16	0.16
Mn under 1.5in.40mm	1.15-1.60	1.15-1.60
Mn over 1.5in.40mm	1.15-1.60	1.15-1.60
P max	0.030	0.030
S max	0.010	0.010
Si	0.05-0.50	0.05-0.50
Ni max	0.75	1.0
Cr max	0.25	0.25
Mo max	0.08	0.15
Cu max	0.35	0.35

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Ti N \leq 0.005	0.003-0.02	0.003-0.02
Ti N > 0.005	0.007-0.02	0.007-0.02
Nb max	0.03	0.03
N max	0.012	0.012
B max	0.0005	0.0005

API 2W Gr.50/Gr.60 steel mechanical properties

Property	Gr.50	Gr.60
yield strength ksi(mpa)		
t \leq 1in.(25mm)	50-75(345-517)	60-90(414-621)
t > 1in.(25mm)	50-70(345-483)	60-85(414-586)
Tensile Strength, ksi(mpa), min	65(448)	75(517)
2in.(50mm) elongation, min, %	23	22
8in.(200mm) elongation, min, %	18	16

API 2W Gr.50/Gr.60 steel heat treatment

Due to the inherent characteristics of the TMCP method, plates manufactured to this spec cannot be formed or postweld heat treated at temperatures above 1100°F (595°C) without some risk of sustaining irreversible and significant losses in strength and toughness. If warm-forming is to be required during subsequent fabrication, the tensile and notch toughness properties of the finished component shall be verified and

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the properties shall conform to the requirements of this specification. The procedure for verification shall be subject to mutual agreement. The plates may be post-weld heat treated at elevated temperatures not exceeding 1100°F (595°C) providing test coupons are subjected to a thermal cycle to stimulate such fabrication operations, as described in Supplementary Requirement S9. Verification or simulation is not necessary for heating at temperatures not exceeding 400°F (205°C).

API 2W Gr.50/Gr.60 steel work/steel structure/steel machining parts testing equipment:

calipers, pressure sensors, magnetic particle inspection machine, digital ultrasonic flaw detector, hydraulic universal testing machine, digital thickness gauge etc.

Katalor have been playing vital supplier role in the full spectrum of industries ranging from oil and gas, power plant, cement plant, shipbuilding, bridge, building, crane building etc. We not only can supply API 2W Gr.50/Gr.60 steel work/steel structure/steel machining parts,

also can provide Heat treatment, Test, Galvanization, pre-treatment, Cutting etc service,

If you need API 2W Gr.50/Gr.60 steel work/steel structure/steel machining parts, contact us!

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Shanghai Katalor Enterprises Co., Ltd located in shanghai of china, is specialized in manufacturing and exporting steel and casting product. Based on the domestic rich product resources and professional research on international market, Katalor's service has already spread many countries in Europe , America, Southeast Asia, Middle East, South America, Africa, and so on.

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