



API 2H Gr.42/Gr.50 steel work / steel structure / steel machining parts

API 2H Gr.42/Gr.50 steel work/steel structure/steel machining parts for use in welded construction of offshore structures, in selected critical portions which must resist impact,

plastic fatigue loading, and lamellar tearing.

API 2H specification covers Gr.42 and Gr.50 two grades of intermediate strength steel plates up to 4 in. thick.

API 2H Gr.42/Gr.50 steel plate availability size:

Thickness : 1/2" – 4"

Width: 48" – 120"

Length: 96" – 480"

API 2H Gr.42/Gr.50 steel work/steel structure/steel machining parts chemical composition

Element	Gr.42	Gr.50
C max heat analysis	0.18	0.18
Cmax product analysis	0.22	0.22
Mn heat analysis	0.90-1.35	1.15-1.60
P max heat analysis	0.030	0.030
S max heat analysis	0.010	0.010
S max product analysis	0.015	0.015

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Si heat analysis	0.05-0.40	0.05-0.40
Si product analysis	0.05-0.45	0.05-0.45
Nb heat analysis	0.04 max	0.01-0.04
Ti	0.020 max	0.020 max
Al heat analysis	0.02-0.06	0.02-0.06
N heat analysis	0.012	0.012

API 2H Gr.42/Gr.50 steel mechanical properties

Property	Gr.42	Gr.50
yield strength, ksi mpa min		
t≤2.5in.	42(289)	50(345)
t>2.5in.	42(289)	47(324)
Tensile Strength, ksi mpa	62-82(427-565)	70-90(483-620)
2in.(50mm) Elongation, min %	22	21
8in.(200mm) Elongation, min %	18	16

API 2H Gr.42/Gr.50 steel heat treatment:

Grade 50 plates over 2 1/2 inches in nominal thickness that fail to meet the minimum mechanical requirements after normalizing, may be quenched-and-tempered by heating to a temperature between 1500°F(815°C) and 1700°F(925°C) to produce an austenitic structure, holding a sufficient time to attain uniform heat throughout the

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material, quenching in a suitable medium, and tempering in the range from 1100°F to 1300°F (595°C to 705°C).

API 2H Gr.42/Gr.50 steel work/steel structure/steel machining parts steel service:

Heat treatment, Test, Galvanization, pre-treatment, Cutting etc.

Payment Terms: T/T, Irrevocable at sight L/C or 30 % advance payment others by LC

Katalor enterprises has developed into a marketing/sourcing and logistic company. For Katalor each customer is unique and important. We go beyond match-making to build long term sustainable partnerships. Katalor as the API 2H Gr.42/Gr.50 steel work/steel

structure/ steel machining parts for offshore platform industry supplier, as long as you have the drawings, we have the ability to provide API 2H Gr.42/Gr.50 steel work/steel structure

/steel machining parts for you!

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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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