



ASTM A709 Gr.36/Gr.50/Gr.50W steel work / steel structure /steel machining parts

ASTM A709 Gr.36/Gr.50/Gr.50W steel work/steel structure/steel machining parts intended

for use in bridges,railways,ships,vehicles,machine tools,etc.

ASTM A709 Gr.36/Gr.50/Gr.50W steel covers carbon and high-strength low alloy steel structural shapes, plates, and bars and quenched and tempered alloy steel for structural plates.

ASTM A709 Gr.36 steel chemical composition

Thickn ess in mm	Shape s all	Plates				Bars		
		To 20	20 to 40	40 to 65	65 to 100	To 20	20 to 40	40 to 100
C max %	0.26	0.25	0.25	0.26	0.27	0.26	0.27	0.28
Mn %	0.8-1.2	0.8-1.2	0.85-1. 2	...	0.6-0.9	0.6-0.9
P max %	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
S max %	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Si	0.40 max	0.40 max	0.40 max	0.15-0. 40	0.15-0. 40	0.40 max	0.40 max	0.40 max

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Cu,min %	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
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ASTM A709 Gr.50 steel work/steel structure / steel machining parts chemical composition,max

C	Mn	P	S
0.23	1.35	0.04	0.05

ASTM A709 Gr.50W steel work/steel structure/steel machining parts chemical composition,max

	Type A	Type B	Type C
C	0.19 max	0.20 max	0.15 max
Mn	0.80-1.25	0.75-1.35	0.80-1.35
P	0.04 max	0.04 max	0.04 max
S	0.05 max	0.05 max	0.05 max
Si	0.30-0.65	0.15-0.50	0.15-0.40
Ni	0.40 max	0.50 max	0.25-0.50
Cr	0.40-0.65	0.40-0.70	0.30-0.50
Cu	0.25-0.40	0.20-0.40	0.20-0.50
V	0.02-0.10	0.01-0.10	0.01-0.10

ASTM A709 Gr.36/Gr.50/Gr.50W steel mechanical properties

Grade	Plate thickness in mm	Structural shape flange or leg thickness,in	Yield point or yield strength ksi mpa	Tensile strength ksi mpa

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		mm		
36	To 100	To 75	250 min	400-550
		Over 75	250 min	400 min
50	To 100	all	345 min	450 min
50w	To 100	all	345 min	485 min

ASTM A709 Gr.36/Gr.50/Gr.50W steel heat treatment

For quenched and tempered Grades HPS 50W [HPS 345W] and HPS 70W [HPS 485W], the heat treatment shall be performed by the manufacturer and shall consist of heating the steel to not less than 1650°F [900°C], quenching it in water or oil, and tempering it at not less than 1100°F [590°C]. The heat-treating temperatures shall be reported on the test certificates.

ASTM A709 Gr.36/Gr.50/Gr.50W 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 our own processing factory and the pre-treatment factory, pre-treatment for shipbuilding steel (ball blasting , derusting, painting), surface pretreatment line on steel plates and profile steel. And we can also provide the customers our other processing services, like cutting, welding, drilling holes, galvanizing by the lowest cost price . If you need ASTM A709 Gr.36/Gr.50/Gr.50W steel work/steel structure/steel machining parts, please contact katalor. At the same time, as long as you have the drawings, we can customize ASTM A709 Gr.36/Gr.50/Gr.50W steel work/steel structure /steel machining parts for you!

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Shanghai Katalor Enterprises

ONCE BELIEVE, TRUST FOREVER!

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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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