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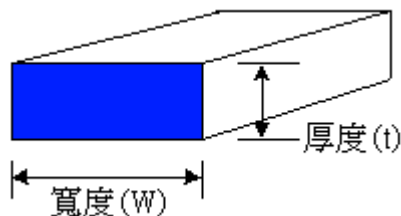
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可產製尺寸 Available Sizes

寬度 Width (B) : 12mm ~ 200mm

厚度 Thickness (t) : 3mm ~ 25mm

長度 Length (L) : 4m ~ 12m



可產製鋼種 Available Grades

分類 Division	規格 Spec.	材質記號 Symbol
一般結構用 General Structure	CNS 2473	SS330,SS400,SS490,SS540
	JIS G3101	
	ASTM A36	A36
	AS 3679.1	GR300
焊接結構用 Welded Structure	CNS 2947	SM400A,SM490A
	JIS G3106	
	CNS 13812	SN490B
	JIS G3136	
	ASTM A572	Grade 50 type 2
	ASTM A709	Grade 50 type 2
結構用 Structure	EN 10025-2	S235JR,S235J0,S235J2
		S275JR,S275J0,S275J2
		S355JR,S355J0,S355J2,S355K2
機械構造用碳鋼 Machine Structure	JIS G4051	S45C,S50C

化學成份 Chemical Requirements

規格 Spec.	種類符號 Symbol	化學成份 Chemical Composition (%)				
		C	Mn	P	S	Si
CNS 2473 JIS G3101	SS330	-	-	0.050max	0.050max	-
	SS400					
	SS490					
	SS540	0.30max	1.60max	0.040max	0.040max	-
JIS G4051	S45C	0.42~0.48	0.60~0.90	0.030max	0.035max	0.15~0.35
	S50C	0.47~0.53	0.60~0.90	0.030max	0.035max	0.15~0.35
ASTM A36	A36(t≤20)	0.26max	-	0.040max	0.050max	0.40max
	A36(20<t≤40)	0.27max	0.60~0.90	0.040max	0.050max	0.40max
ASTM A572	Grade 50 type 2	0.23max	1.35max	0.040max	0.050max	0.40max
ASTM A709	Grade 50 type 2	0.23max	1.35max	0.040max	0.050max	0.40max
CNS 2947 JIS G3106	SM400A	0.23max	2.5*Cmin	0.035max	0.035max	-
	SM490A	0.20max	1.60max	0.035max	0.035max	0.55max
CNS 13812 JIS G3136	SN490B	0.18max	1.60max	0.030max	0.015max	0.55max
AS 3679.1	GR300	0.25max	1.60max	0.040max	0.040max	0.50max
EN 10025-2	S235JR	0.17max	1.40max	0.035max	0.035max	-
	S235J0	0.17max	1.40max	0.030max	0.030max	-
	S235J2	0.17max	1.40max	0.025max	0.025max	-
	S275JR	0.21max	1.50max	0.035max	0.035max	-
	S275J0	0.18max	1.50max	0.030max	0.030max	-
	S275J2	0.18max	1.50max	0.025max	0.025max	-
	S355JR	0.24max	1.60max	0.035max	0.035max	0.55max
	S355J0	0.20max	1.60max	0.030max	0.030max	0.55max
	S355J2	0.20max	1.60max	0.025max	0.025max	0.55max
	S355K2	0.20max	1.60max	0.025max	0.025max	0.55max

機械性質 Mechanical Requirements

分類 Spec.	種類記號 Symbol	拉 伸 試 驗			180° 彎曲試片, 內側半徑 Bend Test 180° Inside Radius	衝擊 試驗 Impact test	
		降伏強度 Yield Strength N/mm ² (ksi)		抗拉強度 Tensile Strength N/mm ² (ksi)			伸長率 (%) Elongation
		直徑 mm					
		t ≤ 16	16 < t ≤ 40				
CNS 2473 JIS G3101	SS330	205min	195min	330~430	26min[t ≤ 5]	0.5*t OK	-
					21min[5 < t ≤ 16]		
					26min[16 < t ≤ 50]		
	SS440	245min	235min	400~510	21min[t ≤ 5]	1.5*t OK	-
					17min[5 < t ≤ 16]		
					21min[16 < t ≤ 50]		
	SS490	285min	275min	490~610	19min[t ≤ 5]	2.0*t OK	-
					15min[5 < t ≤ 16]		
					19min[16 < t ≤ 50]		
	SS540	400min	390min	540min	16min[t ≤ 5]	2.0*t OK	-
					13min[5 < t ≤ 16]		
					17min[16 < t ≤ 50]		
ASTM A36	A36	250(36)min		400-550(58-80)	20min[標距 (g.l)200mm]	-	-
ASTM A572	Grade 50 type 2	345(50)min		450(65)min	18min[標距 (g.l)200mm]	-	-
ASTM A709							
CNS 2947 JIS G3106	SM400A	245min	235min	400~510	23min[t ≤ 5]	-	-
					18min[5 < t ≤ 16]		
					22min[16 < t ≤ 50]		
	SM490A	325min	315min	490~610	22min[t ≤ 5]	-	-
					17min[5 < t ≤ 16]		
					21min[16 < t ≤ 50]		
CNS 13812 JIS G3136	SN490B	325~445(降伏比 Yield ratio ≤ 80%以下)		490~610	17min[6 ≤ t ≤ 16]	-	依規格 Spec.
					21min[16 < t ≤ 50]		

EN 10025-2	S235JR,S235J0, S235J2	235min	225min	360~510	26min(g.l=5.65√S0)	-	依規格 Spec.
	S275JR,S275J0, S275J2	275min	265min	410~560	23min(g.l=5.65√S0)		
	S355JR,S355J0, S355J2,S355K2	355min	345min	470~630	22min(g.l=5.65√S0)		
AS 3679.1	GR300	t<11	11 ≤ t ≤ 17	440min	22min(g.l=5.65√S0)	-	-
		320min	300min				

產品用途 Products Use

一般構造用：建築構造、橋樑、船舶、車輛、格柵板、油槽容器等。

特殊鋼：機械構造、木工機、鎖頭零件等。

General structure quality : for user in building framing, bridges, ships, cars, gratings, oil storage containers.

Special bar quality : for use in mechanical constructions, woodworking machineries, lock components.