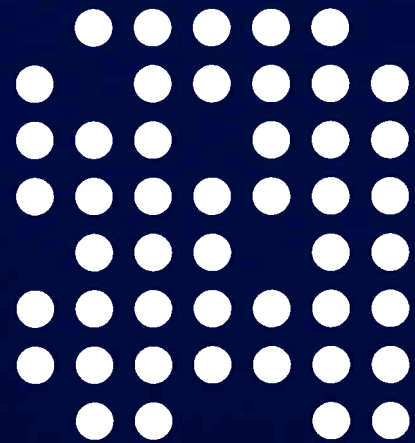
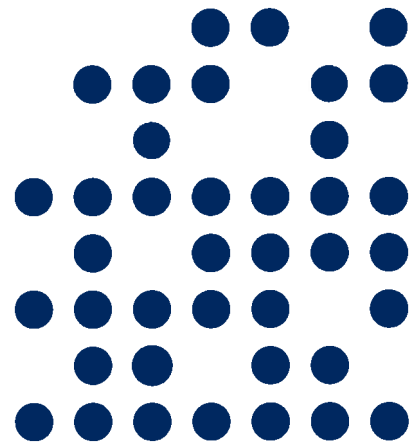


# SK-I STAINLESS STEEL TUBES AND PIPES



*Stainless Steel*

- *Simple*
- *Keen*
- *Installation*

**SK-I**

## 主要產品

### Major Products

本公司提供鋼種最齊全、尺寸最完整之高品質不銹鋼管，滿足客戶「一次購足」的需求。  
To satisfy customers' need for "one-stop-shop", we provide the most complete ranges of grades and size for high quality tubes and pipes.

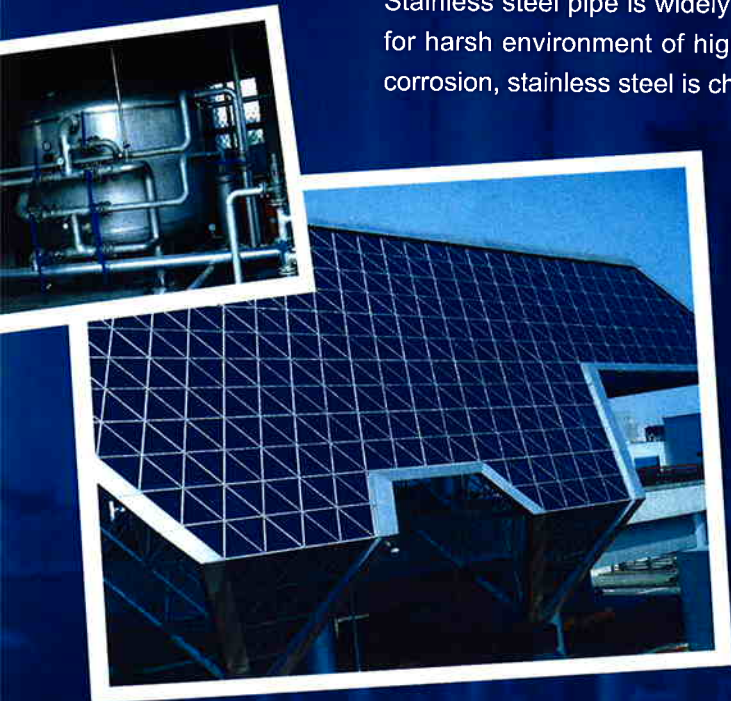
- 工業配管用不銹鋼管
- 大口徑配管用不銹鋼管
- 鍋爐用及熱交換器用不銹鋼管
- 機械結構用不銹鋼管
- 不銹鋼方管、長方管
- 一般配管用不銹鋼管(壓接管)
- 等邊不銹鋼角鋼
- 不銹鋼衛生鋼管
- Stainless steel pipe
- Stainless steel large diameter pipe
- Stainless steel tube for boiler and heat-exchanger
- Stainless steel mechanical tube
- Stainless steel square and rectangular tube
- Stainless steel light gauge tube for general service
- Stainless steel equal leg angle bar
- Stainless steel sanitary tube

## 產品用途

### Applications

不銹鋼管之使用範圍，已廣泛使用在傳輸管路上，且於高溫、低溫、高壓、強烈腐蝕等惡劣環境中，特別顯現不銹鋼管高強度與耐腐蝕的特性。在石油、化工、自來水、污水處理、鑿井、瓦斯、釀酒、電力、通訊、電子、運輸、食品、造紙等產業中、不銹鋼管在整體管路，佔有最主要的地位。此外，在結構連接層面，不銹鋼管有堅固、美觀、壽命長及可加工性佳的特性。如建築物結構及外觀、採光圍幕、輸送軌道、桶槽、傢俱、欄杆、門窗、內部裝潢等，幾乎每個角落都有不銹鋼管的存在。本公司期望以最優良的品質，服務各行各業。

Stainless steel pipe is widely used as delivering pipeline in various industries. Especially for harsh environment of high temperature, low temperature, high pressure, and strong corrosion, stainless steel is chosen over other materials due to its property of high strength and high corrosion resistance. In industries, such as petroleum, chemical, petrochemical, civil water, waste water treatment, welling, sensitive gas, brewery, power utility, communication, electronic, transportation, food, pulp and paper, stainless steel pipe always has the position as the major portion of the entire pipelines. In addition, stainless steel tube is widely used as connecting structure. Stainless steel tube's strong, elegant appear, long lasting life, and easy fabricating characteristics make stainless steel tube the most popular choice for construction structure and outside appearance, sunroom, connecting track, furniture, handrail, door and window, internal decoration. They can be easily spotted everywhere in the world. Supplying the best quality products for everyone is the motivation for us to take each step ahead.



## 品質保證

## Quality Assurance

在品質管制方面，本公司有豐富的製管專業，先進的科學檢驗儀器，及榮獲國內外相關檢驗機構的肯定。在嚴格的品管制度下，確保製造出優良的產品，讓使用者安心及信賴。

For quality assurance, we have exceptional production experiences, advancing scientific inspection facilities, and honorable accreditations from both domestic and international inspection institutions. Under our solid quality system, we have the ability to check and assure the quality of both raw materials and final products. We always keep ourselves within the direction to produce trusting and reliable products for our customers.



### 國家實驗室認證體系認可之檢驗機構

ISO/IEC 17020 Laboratory Accreditation approved by Chinese National Laboratory Accreditation (CNLA), in cooperation list of ILAC (International Laboratory Accreditation Cooperation).  
證書編號 CERTIFICATE NO. I0001



### 六種不銹鋼管正字標記

- |                  |           |
|------------------|-----------|
| 1. 機械結構用不銹鋼鋼管    | 台正字第4973號 |
| 2. 配管用不銹鋼鋼管      | 台正字第4974號 |
| 3. 鍋爐及熱交換器用不銹鋼鋼管 | 台正字第5099號 |
| 4. 冷作成形不銹鋼等邊角鋼   | 台正字第5100號 |
| 5. 不銹鋼衛生鋼管       | 台正字第5098號 |
| 6. 一般配管用不銹鋼鋼管    | 台正字第6868號 |



經濟部標準檢驗局國際標準品質保證制度ISO-9001認可登錄。

證書編號 CERTIFICATE NO. 6M8Y011-00

ISO 9001 quality management system approved by BSMI, Ministry of Economic Affairs.



英國勞氏國際標準品質保證制度ISO-9001認可登錄。

證書編號 CERTIFICATE NO. 925916

ISO 9001 quality management system (PED) approved by Lloyd's Register Quality Assurance, U.K.



英國勞氏國際標準環境管理系統ISO-14001認可登錄。

證書編號 CERTIFICATE NO. T992007

ISO 14001 environmental management system approved by Lloyd's Register Quality Assurance, U.K.

• Simple • Keen • Installation

# 生產設備

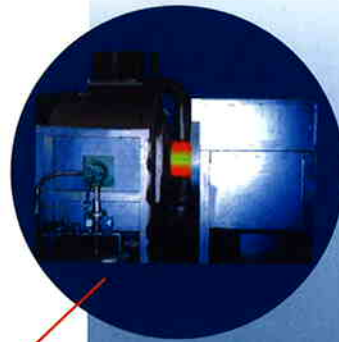
## Production Equipment

為呈現最優良的產品，本公司採用最先進的機械設備，最新穎的製造技術，最齊全的生產線。加上工作人員熟練的技術及豐富的經驗，使「SK-I不銹鋼管」成為業界的楷模。

In order to produce the best products, we always use the most advanced equipment, the most up-to-date production technology, and the most complete range of production lines. Additionally, our technicians and operators are in expertise to assure the reliable performances of both our equipment and products, in order to make "SK-I Tube & Pipe" become the name of stainless steel tube and pipe.



4



線上固溶化熱處理設備  
On line heat treatment furnace



大口徑製管機  
Large diameter pipe mill

- Simple
- Keen
- Installation



# 產品質量

## Product Quality



### Flattening Test

This test is conducted to check the strength of the welded section by subjecting it to extreme compression stress. If the test piece withstands the specified compression stress without cracks, it is determined to be acceptable.



### Flaring Test

The standard procedure for this test is to flare the end of the pipe to a diameter 1.2 times the outside diameter(D). As shown in the photo on the left, no cracks are observed of flared parts.



### Reverse Flattening Test

The photo on the right shows an expanded view of a pipe interior. No cracks or blow holes can be observed on the welded section.



### Tension Test

Material	Min Tension stress		Min Yield stress	
	ksi	kgf/mm	ksi	kgf/mm
TP304L	≥ 70	≥ 49.50	≥ 25	≥ 17.50
TP304	≥ 75	≥ 52.50	≥ 30	≥ 21.00
TP316L	≥ 70	≥ 49.50	≥ 25	≥ 17.50
TP316	≥ 75	≥ 52.50	≥ 30	≥ 21.00

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

### 工業配管用不銹鋼管 Stainless Steel Pipe

● ASTM A312 ● ASTM A358

● CNS 6331 G3124 ● JIS G3459

稱呼外徑 Nominal Outside Diameter	厚度 Thick.	SCH 5S SCH 10S SCH 40S SCH 80S				
		外徑 Outside	mm	mm	mm	mm
NB	NPS	mm	mm	mm	mm	
8	1/4"	13.72		2.24	3.02	
10	3/8"	17.15		2.31	3.20	
15	1/2"	21.34	1.65	2.11	2.77	3.73
20	3/4"	26.67	1.65	2.11	2.87	3.91
25	1"	33.40	1.65	2.77	3.38	4.55
32	1-1/4"	42.16	1.65	2.77	3.56	4.85
40	1-1/2"	48.26	1.65	2.77	3.68	5.08
50	2"	60.33	1.65	2.77	3.91	5.54
65	2-1/2"	73.03	2.11	3.05	5.16	7.01
80	3"	88.90	2.11	3.05	5.49	7.62
90	3-1/2"	101.60	2.11	3.05	5.74	8.08
100	4"	114.30	2.11	3.05	6.02	8.56
125	5"	141.30	2.77	3.40	6.55	9.52
150	6"	168.28	2.77	3.40	7.11	10.97
200	8"	219.08	2.77	3.76	8.18	12.70
250	10"	273.05	3.40	4.19	9.27	12.70
300	12"	323.85	3.96	4.57	9.52	12.70

稱呼外徑 Nominal Outside Diameter	厚度 Thick.	SCH 5S SCH 10S SCH 20S SCH 40S SCH 80S					
		外徑 Outside	mm	mm	mm	mm	mm
(A) (B)		mm	mm	mm	mm	mm	
8	1/4"	13.80	1.20	1.65	2.00	2.20	3.00
10	3/8"	17.30	1.20	1.65	2.00	2.30	3.20
15	1/2"	21.70*	1.65	2.10	2.50	2.80	3.70
20	3/4"	27.20*	1.65	2.10	2.50	2.90	3.90
25	1"	34.00*	1.65	2.80	3.00	3.40	4.50
32	1-1/4"	42.70	1.65	2.80	3.00	3.60	4.90
40	1-1/2"	48.60	1.65	2.80	3.00	3.70	5.10
50	2"	60.50	1.65	2.80	3.50	3.90	5.50
65	2-1/2"	76.30	2.10	3.00	3.50	5.20	7.00
80	3"	89.10	2.10	3.00	4.00	5.50	7.60
90	3-1/2"	101.60	2.10	3.00	4.00	5.70	8.10
100	4"	114.30	2.10	3.00	4.00	6.00	8.60
125	5"	139.80	2.80	3.40	5.00	6.60	9.50
150	6"	165.20	2.80	3.40	5.00	7.10	11.00
200	8"	216.30	2.80	4.00	6.50	8.20	12.70
250	10"	267.40	3.40	4.00	6.50	9.30	15.10
300	12"	318.50	4.00	4.50	6.50	10.30	17.40

用途：石化、造紙、釀酒、瓦斯、蒸汽、自來水、污水處理、下水道工程...等。

Application: Chemical plant, petro-chemical plant, pulp & paper mill, beverage plant, water transport system, power plant ... etc.

\*國內建築、水電用配管：外徑1/2"為20.00mm，厚度2.00~2.50mm；外徑3/4"為26.00mm，厚度2.00~2.50mm；外徑1"為33.00mm，厚度2.00~3.00mm。

### 公差

#### Tolerance

● ASTM A312 ● CNS 6331 G3124 ● JIS G3459

項目 Item	外徑 Outside Diameter(mm)								厚度 Wall Thickness		真直度 Straightness	長度 Length
	規格 Specification	外徑O.D. (mm)	≤ 48.26	48.26	114.3	219.08	457.20	660.40	863.60	厚度 W.T.		
ASTM	外徑O.D. (mm)	≤ 48.26	48.26	114.3	219.08	457.20	660.40	863.60	+ 22.50%	6.40 mm / 6.00 M	+ 50.00 mm - 0 mm	
	公差 Tolerance (mm)	+ 0.40 - 0.80	+ 0.80 - 0.80	+ 1.60 - 0.80	+ 2.40 - 0.80	+ 3.20 - 0.80	+ 4.00 - 0.80	+ 4.80 - 0.80				-12.50%
CNS JIS	外徑O.D. (mm)	< 30.00 mm			≥ 30.00 mm				厚度 W.T.	< 2.00 mm	≥ 2.00 mm	不可低於 指定長度 ≥ defined length
	公差 Tolerance (mm)	± 0.30 mm			± 1.00%				公差 Tolerance	± 0.20 mm	± 10.00%	

• Simple • Keen • Installation

# 產品規格

## Product Specifications

### 大口徑配管用不銹鋼管

### Large Diameter Stainless Steel Pipe

- ASTM A312
- ASTM A358
- ASTM A409
- CNS 13517 G3259
- JIS G3468

稱呼外徑 Nominal Outside Diameter		厚度 Thickness 外徑 Outside (mm)	SCH 5S	SCH 10S	SCH 20	SCH 40
(A)	(B)		mm	mm	mm	mm
350	14"	355.60	4.00	5.00	8.00	11.10
400	16"	406.40	4.50	5.00	8.00	12.70
450	18"	457.20	4.50	5.00	8.00	14.30
500	20"	508.00	5.00	5.50	9.50	15.10
550	22"	558.80	5.00	5.50	9.50	15.90
600	24"	609.60	5.50	6.50	9.50	17.50
650	26"	660.40	5.50	8.00	12.70	17.50
700	28"	711.20	5.50	8.00	12.70	17.50
750	30"	762.00	6.50	8.00	12.70	17.50
800	32"	812.80		8.00	12.70	17.50
850	34"	863.60		8.00	12.70	17.50
900	36"	914.40		8.00	12.70	19.10
1000	40"	1016.00		9.50	14.30	26.20

自用途：石化、造紙、釀酒、瓦斯、蒸汽、來水、污水處理、下水道工程 ... 等。

Application：Chemical plant, petro-chemical plant, pulp & paper mill, beverage plant, water transport system, power plant ... etc.

本公司可製造規格如下表，其他規格歡迎訂購。(外徑最高可訂製至80")

We are able to offer the sizes shown in the table below. Other sizes are also available up to request.(up to 80")

外徑 Outside Diameter (inch)	厚度 Thickness (mm)	6.0	8.0	9.0	10.0	12.0	13.0	14.0	15.0	16.0	17.0 ~ 30.0
42											
44											
46											
48											
50											
52											
54											
56											
58											
60											
62 up											

用途：石化、造紙、釀酒、瓦斯、蒸汽、自來水、污水處理、下水道工程、鑿井、焚化爐 ... 等。

Application：Chemical plant, petro-chemical plant, pulp & paper mill, beverage plant, water transport system, power plant, welling ... etc.

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

鍋爐用及熱交換管用不銹鋼管

Stainless Steel Tube for Boiler and Heat-Exchanger

- ASTM A249
- ASTM A269
- CNS 7383 G3142
- JIS G3463

外徑 Outside Diameter (inch)	厚度 Thickness (mm)	1.6	2.0	2.3	2.6	2.9	3.2	3.5	4.0	4.5	5.0
	15.9										
19.0											
21.7											
25.4											
27.2											
31.8											
34.0											
38.1											
42.7											
48.6											
50.8											
60.3											
63.5											
76.2											
88.9											
101.6											
114.3											
139.8											

公差

Tolerance

- ASTM A249
- ASTM A269
- CNS 7383 G3142
- JIS G3463

規格 Specification	項目 Item	外徑 Outside Diameter	厚度 Wall Thickness			長度 Length
	ASTM		12.7 ~ 38.1 mm ± 0.13 mm 38.1 ~ 88.9 mm ± 0.25 mm 88.9 ~ 139.7 mm ± 0.38 mm	± 10%		
CNS JIS		≤ 60 mm ± 0.25 mm	外徑 O.D.	厚度 W.T.	公差 Tolerance	+ 50.00 mm - 0 mm
		60 ~ 80 mm ± 0.30 mm	< 40 mm	< 2 mm	+ 0.40 mm - 0 mm	
		80 ~ 100 mm ± 0.40 mm	< 40 mm	≥ 2 mm	+ 20% - 0 mm	
		100 ~ 120 mm + 0.40mm - 0.60 mm	≥ 40 mm	—	+ 22% - 0 mm	
		120 ~ 160 mm + 0.40 mm - 0.80 mm				

- Simple
- Keen
- Installation



# 產品規格

## Product Specifications

### 機械結構用不銹鋼管

#### Stainless Steel Mechanical Tube

- ASTM A554
- CNS 5802 G3119
- JIS G3446

外徑 Outside Diameter (mm)	厚度 Thickness (mm)	0.7	0.8	0.9	1.0	1.2	1.5	2.0	3.0	4.5	6.5
	12.7										
15.9											
19.0											
22.2											
25.4											
28.6											
31.8											
38.1											
50.8											
63.5											
76.2											
88.9											
101.6											
114.3											

用途 : 傢俱、裝潢、汽車、機車、腳踏車、排氣管、欄杆、桌椅、帳篷...等  
 Application : furniture, auto-parts, motorcycle parts, bicycle, exhaust system, rail, chair, desk, tent...etc.

### 公差

#### Tolerance

- ASTM A554
- CNS 5802 G3119
- JIS G3446

規格 Specification	項目 Item	外徑 Outside Diameter	厚度 Wall Thickness	真直度 Straightness	長度 Length
ASTM		< 12.7 mm	± 0.10 mm	5.15 mm / 6M	+ 50.00 mm - 0 mm
		12.7 ~ 25.4 mm	± 0.13 mm		
CNS JIS		25.4 ~ 38.1 mm	± 0.20 mm	—	+ 50.00 mm - 0 mm
		38.1 ~ 50.8 mm	± 0.25 mm		
		50.8 ~ 63.5 mm	± 0.36 mm		
		63.5 ~ 88.9 mm	± 0.51 mm		
		88.9 ~ 114.3 mm	± 0.64 mm		
		< 50 mm	± 0.5 mm		
≥ 50 mm	± 1%				
		< 4 mm	+ 0.6 mm - 0.5 mm		
		≥ 4 mm	+ 15% - 12.50%		

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

方管、長方管

Stainless Steel Square and Rectangular Tube

- ASTM A554
- CNS 5802 G3119

邊長 Side Length (mm)	厚度 Thickness (mm)	厚度										
		0.7	0.8	0.9	1.0	1.2	1.5	2.0	3.0	4.5	6.5	
12.7 x 12.7												
15.9 x 15.9												
18.0 x 18.0												
19.0 x 19.0												
20.0 x 20.0												
25.4 x 25.4												
30.0 x 30.0												
31.8 x 31.8												
38.1 x 38.1												
40.0 x 40.0												
44.4 x 44.4												
50.8 x 50.8												
60.0 x 60.0												
63.5 x 63.5												
70.0 x 70.0												
76.2 x 76.2												
80.0 x 80.0												
90.0 x 90.0												
100.0 x 100.0												
101.6 x 101.6												

用途：門窗、裝潢、輸送軌道、置物架、大門等用。  
Application: window, decoration, rail, stand, gate...,etc.

### 公差

Tolerance

- ASTM A554
- CNS 5802 G3119

項目 Item 規格 Specification	邊長 Side Length	厚度 Wall Thickness	圓弧角 Radii of Corners		真直度 Straightness	長度 Length	平坦度 Flatness	
			厚度 W.T.	公差 Tolerance			邊長 Side	公差 Tolerance
ASTM	最長邊之邊長 x 0.006 length of longest side x 0.006	± 10%	0.51 ~ 1.24 mm 1.24 ~ 1.65 mm 1.65 ~ 2.11 mm 2.11 ~ 2.42 mm 2.42 ~ 2.77 mm 2.77 ~ 3.40 mm 3.4 ~ 3.96 mm	2.4 mm 3.2 mm 3.6 mm 4.8 mm 5.2 mm 5.6 mm 6.4 mm	≤ 12.6 mm / 6 m	+ 50.00 mm - 0 mm	< 31.8 mm 31.8 ~ 63.5 mm ≥ 63.5 mm	± 0.38 mm ± 0.51 mm ± 0.76 mm
CNS	< 50 mm ± 0.5 mm ≥ 50mm ± 1%	< 4 mm + 0.6 mm - 0.5 mm ≥ 4 mm + 15% - 12.50%	—		—	+ 50.00 mm - 0 mm	—	

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

- ASTM A554
- CNS 5802 G3119

外徑 Outside Diameter (mm)	厚度 Thickness (mm)	0.9	1.0	1.2	1.5	2.0	3.0	4.5	6.5
13.0 x 26.0									
15.0 x 30.0									
19.0 x 38.1									
20.0 x 40.0									
25.0 x 50.0									
25.4 x 38.1									
25.4 x 50.8									
25.4 x 76.2									
30.0 x 60.0									
40.0 x 80.0									
45.0 x 75.0									
45.0 x 95.0									
50.0 x 100.0									
50.8 x 76.2									
50.8 x 101.6									

用途：門窗、裝潢、輸送軌道、置物架、大門等用。  
 Application: window, decoration, rail, stand, gate...etc.

### 一般配管用不銹鋼管(壓力管)

#### Stainless Steel Light Gauge Tube for General Service

- CNS 13392 G3258
- JIS G3448

稱呼外徑 Nominal Outside Diameter (mm)	外徑 Outside Diameter (mm)	厚度 Wall Thickness(mm)	外徑公差 O.D. Tolerance (mm)	厚度公差 W.T.Tolerance (mm)	長度公差 Length Tolerance (mm)
10	12.70	0.8	-0.37 ~+0	± 0.12	-0~+50
13	15.88	0.8	-0.37 ~+0	± 0.12	-0~+50
20	22.22	1.0	-0.37 ~+0	± 0.12	-0~+50
25	28.58	1.0	-0.37 ~+0	± 0.12	-0~+50
30	34.00	1.2	-0.34 ~+0.34	± 0.12	-0~+50
40	42.70	1.2	-0.43 ~+0.43	± 0.12	-0~+50
50	48.60	1.2	-0.49 ~+0.49	± 0.12	-0~+50
60	60.50	1.5	-0.60 ~+0.60	± 0.15	-0~+50
75	76.30	1.5	± 0.1%	± 0.15	-0~+50
80	89.10	2.0	± 0.1%	± 0.30	-0~+50
100	114.30	2.0	± 0.1%	± 0.30	-0~+50
125	139.80	2.0	± 0.1%	± 0.30	-0~+50
150	165.20	3.0	± 0.1%	± 0.40	-0~+50
200	216.30	3.0	± 0.1%	± 0.40	-0~+50
250	267.40	3.0	± 0.1%	± 0.40	-0~+50
300	318.50	3.0	± 0.1%	± 0.40	-0~+50

用途：水電明管配裝用。  
 Application: plumbing

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

### 等邊不銹鋼角鐵

#### Stainless Steel Equal Leg Angle Bar

- CNS 10806
- G3218

厚度 Thickness(mm)	2.0	2.5	3.0	4.0	5.0	6.0
邊長 Side Length (mm)						
25 x 25						
30 x 30						
40 x 40						
50 x 50						
65 x 65						
75 x 75						

用途：機械組合、土木建築用、支架鐵架（基地台）、水塔業。  
Application：machine and construction.

### 不銹鋼衛生鋼管

#### Stainless Steel Sanitary Tube

- ASTM A270

厚度 Thickness(mm)	1.2	2.0	3.0	外徑公差 O.D. Tolerance	厚度公差 W.T. Tolerance	長度公差 Length Tolerance
外徑 Outside Diameter(mm)						
25.4				-0.20 mm~+0.05 mm	± 12.5%	-0+50 mm
38.1				-0.20 mm~+0.05 mm	± 12.5%	-0+50 mm
50.8				-0.28 mm~+0.05 mm	± 12.5%	-0+50 mm
63.5				-0.28 mm~+0.05 mm	± 12.5%	-0+50 mm
76.2				-0.30 mm~+0.08 mm	± 12.5%	-0+50 mm
101.6				-0.38 mm~+0.08 mm	± 12.5%	-0+50 mm

用途：乳酪業、釀酒業、自來水業、食品業之輸送管。  
Application：dairy product, brewery, and food.

- CNS 6668 G3131
- JIS G3447

厚度 Thickness(mm)	1.2	1.5	2.0	3.0	外徑公差 O.D. Tolerance	厚度公差 W.T. Tolerance	長度公差 Length Tolerance
外徑 Outside Diameter (mm)							
25.4					-0.15 mm~+0.15 mm	± 10%	-0+50 mm
31.8					-0.16 mm~+0.16 mm	± 10%	-0+50 mm
38.1					-0.19 mm~+0.19 mm	± 10%	-0+50 mm
50.8					-0.25 mm~+0.25 mm	± 10%	-0+50 mm
63.5					-0.25 mm~+0.25 mm	± 10%	-0+50 mm
76.3					-0.25 mm~+0.25 mm	± 10%	-0+50 mm
89.1					-0.40 mm~+0.30 mm	± 10%	-0+50 mm
101.6					-0.40 mm~+0.35 mm	± 10%	-0+50 mm
114.3					-0.60 mm~+0.40 mm	± 10%	-0+50 mm
139.8					-0.80 mm~+0.40 mm	± 10%	-0+50 mm
165.2					-1.20 mm~+0.40 mm	± 10%	-0+50 mm

用途：乳酪業、釀酒業、自來水業、食品業之輸送管。  
Application：dairy product, brewery, and food.

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

### 水壓試驗壓力試驗標準

### Hydrostatic Test Standard

- ASTM A312
- ASTM A358

單位 : Mpa (kgf/cm<sup>2</sup>)

稱呼外徑 Nominal Outside Diameter	外徑 Outside Diameter (mm)	厚度 Wall Thickness(mm)							
		SCH 5S		SCH10S		SCH 40S		SCH 80S	
		厚度 W.T. (mm)	Mpa	厚度 W.T. (mm)	Mpa	厚度 W.T. (mm)	Mpa	厚度 W.T. (mm)	Mpa
1/8"	10.29			1.24	17.64	1.73	17.64	2.41	17.64
1/4"	13.72			1.65	17.64	2.24	17.64	3.02	17.64
3/8"	17.15			1.65	17.64	2.31	17.64	3.20	17.64
1/2"	21.34	1.65	16.17	2.11	17.64	2.77	17.64	3.73	17.64
3/4"	26.67	1.65	12.74	2.11	17.64	2.87	17.64	3.91	17.64
1"	33.40	1.65	10.29	2.77	17.15	3.38	17.64	4.55	17.64
1-1/4"	42.16	1.65	8.33	2.77	13.72	3.56	17.64	4.85	17.64
1-1/2"	48.26	1.65	7.35	2.77	11.76	3.68	15.68	5.08	17.64
2"	60.33	1.65	5.88	2.77	9.80	3.91	13.72	5.54	17.64
2-1/2"	73.03	2.11	5.88	3.05	8.82	5.16	14.70	7.01	17.64
3"	88.90	2.11	4.90	3.05	7.35	5.49	12.74	7.62	17.64
3-1/2"	101.60	2.11	4.41	3.05	6.37	5.74	11.76	8.08	16.66
4"	114.30	2.11	3.92	3.05	5.88	6.02	10.78	8.56	15.68
5"	141.30	2.77	3.92	3.40	5.39	6.55	9.80	9.52	14.21
6"	168.28	2.77	3.43	3.40	4.41	7.11	8.82	10.97	13.72
8"	219.08	2.77	2.94	3.76	3.92	8.18	7.84	12.70	12.25
10"	273.05	3.40	2.94	4.19	3.43	9.27	7.34	12.70	9.80
12"	323.85	3.96	2.94	4.57	2.94	9.52	6.37	12.70	8.33

- CNS 6331 G3459
- JIS G3459

<表一>< Table 1 >

單位 : Mpa (kgf/cm<sup>2</sup>)

標稱厚度號數 Schedule	5S	10S	20S	40	80	120	160
水壓試驗壓力 testing pressure	1.5 (15)	2.0 (20)	3.5 (35)	6.0 (60)	12.0 (120)	18.0 (180)	20.0 (200)

規格表使用 Listed in specification

<表二>< Table 2 >

單位 : Mpa (kgf/cm<sup>2</sup>)

厚度/外徑 Thickness/diameter	超過 0.80-1.60	超過 1.60-2.40	超過 2.40-3.20	超過 3.20-4.00	超過 4.00-4.80	超過 4.80-5.60	超過 5.60-6.30	超過 6.30-7.10	超過 7.10-7.90	超過 7.90
水壓試驗壓力 testing pressure	2.0 (20)	4.0 (40)	6.0 (60)	8.0 (80)	10.0 (100)	12.0 (120)	14.0 (140)	16.0 (160)	18.0 (180)	20.0 (200)

非規格表使用 Not listed in specification

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

### 不銹鋼機械性質及物理性質

#### Stainless Steel Mechanical and Physical Properties

鋼種 Type			機械性質及物理性質 Mechanical and Physical Properties						
			抗拉強度 Tensile Strength	伸長率 Elongation	降伏強度 Yield Strength	硬度 Hardness	彈性系數 Young's Modulus	熱傳導率 Thermal Conductivity	平均熱膨脹系數 Mean Coefficient of Thermal Expansion
ASTM	CNS	JIS	kgf/mm <sup>2</sup> (N/mm <sup>2</sup> )	%	kgf/mm <sup>2</sup> (N/mm <sup>2</sup> )	HRB	kgf/mm <sup>2</sup>	cal / cm / sec <sup>0</sup> C	1/ <sup>0</sup> C (-317 <sup>0</sup> C)
TP304	304 TP	SUS 304	≥ 53 (≥ 520)	≥ 35	≥ 21 (≥ 205)	≤ 92	1.97 x 10 <sup>4</sup>	0.039	17.8 x 10 <sup>-6</sup>
TP304L	304L TP	SUS 304L	≥ 49 (≥ 480)	≥ 35	≥ 18 (≥ 175)	≤ 92	1.97 x 10 <sup>4</sup>	0.039	17.8 x 10 <sup>-6</sup>
TP316	316 TP	SUS 316	≥ 18 (≥ 520)	≥ 35	≥ 21 (≥ 205)	≤ 95	1.97 x 10 <sup>4</sup>	0.039	16.2 x 10 <sup>-6</sup>
TP316L	316L TP	SUS 316L	≥ 49 (≥ 480)	≥ 35	≥ 18 (≥ 175)	≤ 95	1.97 x 10 <sup>4</sup>	0.039	16.2 x 10 <sup>-6</sup>

### 不銹鋼化學成份

#### Stainless Steel Chemical Composition

鋼種 Type			化學成份 Chemical Composition (%)								
			C	Si	Mn	P	S	Ni	Cr	Mo	Ti
TP304	304 TP	SUS 304	≤ 0.08	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.045	≤ 0.030	8.00 ~ 10.50	18.00 ~ 20.00		
TP304L	304L TP	SUS 304L	≤ 0.030 (≤ 0.035)	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.040	≤ 0.030	9.00 ~ 13.00 (8.00 ~ 13.00)	18.00 ~ 20.00		
TP316	316 TP	SUS 316	≤ 0.08	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.040	≤ 0.030	10.00 ~ 14.00 (10.00 ~ 14.00)	16.00 ~ 18.00	2.00 ~ 3.00	
TP316L	316L TP	SUS 316L	≤ 0.030 (≤ 0.035)	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.040	≤ 0.030	12.00 ~ 16.00 (10.00 ~ 15.00)	16.00 ~ 18.00	2.00 ~ 3.00	
TP304H	304H TP	SUS 304H	≤ 0.10	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.045	≤ 0.030	8.00 ~ 10.50	18.00 ~ 20.00		
TP317L	317L TP	SUS 317L	≤ 0.03	≤ 1.50 (≤ 0.75)	≤ 2.00	≤ 0.045	≤ 0.030	11.00 ~ 15.00	18.00 ~ 20.00	3.00 ~ 4.00	
TP321	321 TP	SUS 321	≤ 0.08	≤ 1.00 (≤ 0.75)	≤ 2.00	≤ 0.045	≤ 0.030	9.00 ~ 12.00	17.00 ~ 19.00		min. C% x 5 以上 (C% x 5 ~ 0.60%)
TP321H	321H TP	SUS 321H	≤ 0.10	≤ 0.75	≤ 2.00	≤ 0.045	≤ 0.030	9.00 ~ 12.00	17.00 ~ 19.00		min. C% x 4 以上 (C% x 4 ~ 0.60%)

- Simple
- Keen
- Installation

# 產品規格

## Product Specifications

### 不銹鋼固溶化熱處理標準

### Stainless Steel Solution Annealing Standard

ASTM 規範		CNS 規範		JIS 規範	
鋼種 Type	固溶化熱處理 Annealing Process	鋼種 Type	固溶化熱處理 Annealing Process	鋼種 Type	固溶化熱處理 Annealing Process
TP 304	1040 °C 以上	304 TP	1010 °C 以上	SUS 304	1010 °C 以上
TP 304L	水急冷	304L TP	水急冷	SUS 304L	水急冷
TP 316	min. 1040 °C	316 TP	min. 1010 °C	SUS 316	min. 1010 °C
TP 316L	water quenching	316L TP	water quenching	SUS 316L	water quenching

### 不銹鋼管重量計算公式表

### Weight Calculation Table

鋼種 Type			密度 Density (g/cm <sup>3</sup> )	計算方式 Formula
ASTM	CNS	JIS		
TP304	304 TP	SUS 304	7.93	W = 0.02491T (D-T)
TP304L	304L TP	SUS 304L		
TP316	316 TP	SUS 316	7.98	W = 0.02507T (D-T)
TP316L	316L TP	SUS 316L		

W : 鋼管重量 (kg/m)

T : 鋼管厚度 (mm)

D : 鋼管外徑 (mm)

W : weight (kg/m)

T : thickness (mm)

D : outside diameter (mm)

### 外銷包裝方式 Export Packing

◀ 鐵箱  
steel crates

捆裝 ▶  
bundles





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