

YH52 52S
High Precision Aluminium Plate



# ▼ Excellent Flatness Enables You To Cut Cost And Time For Machining

Improving thickness precision and flatness of JIS H4000 A5052P.

#### **FEATURES**

- Minimizing residual stress makes it possible to suppress warping from cutting work.
- Excellent flatness and surface quality.
- High Surface quality allows good anodizing surface finish.

# ▼ Applications

- Semiconductor and liquid crystal manufacturing equipment.
- Solar cell panel manufacturing equipment.
- Components and base plates of precision machines.

#### **CHEMICAL COMPOSITION (%)**

	• •							(Office VVC/0)
	Fe	Cu	Mn	Mg	Cr	Zn	Each Total	Ai
≤0.24	≤0.40	≤0.10	≤0.10	2.2~2.8	0.25~0.35	≤0.10	≤0.05 ≤0.15	Re

### **MECHANICAL PROPERTY (TYPICAL VALUES)**

Thickness (mm)	Tensile Strength (N/mm²)	Elongation (%)
15	197	37

Two-sided protective flim is applied









# ▼ Comparison Of Thickness Tolerance Of Stock Size

**% JIS: Japanese Industrial Standards** 

Thickness	Width x Length	Temper	YH52 Plate		52S Plate		A5052 Plate	
			Thickness	Flatness	Thickness Tolerance	Flatness (Below 1000mm)	Thickness Tolerance	Flatness (Below 1000mm)
4	1525 x 3050	H112	±0.04	0.2	±0.06	0.2	±0.50	3.0
5			±0.04	0.2	±0.07	0.2	±0.50	3.0
6			±0.04	0.2	±0.08	0.2	±0.60	3.0
8			±0.05	0.2	±0.10	0.2	±0.60	3.0
10			±0.05	0.2	±0.10	0.2	±0.70	3.0
12			±0.05	0.2	±0.10	0.2	±0.70	3.0
15			±0.08	0.2	±0.15	0.2	±0.80	3.0
16			±0.08	0.2	±0.16	0.2	±0.80	3.0
18			±0.09	0.2	±0.18	0.2	±0.80	3.0
20			±0.10	0.2	±0.20	0.2	±0.80	3.0
22			±0.10	0.2	±0.22	0.2	±0.80	3.0
25			±0.12	0.2	±0.25	0.2	±0.90	3.0
30			±0.15	0.2	±0.28	0.2	±1.00	3.0

- 52S plate has significantly improved thickness tolerance and flatness of JIS spec A5052P.
   Difference between 52S and YH52
- - YH52 has better thickness tolerance.
- YH52 has less distortion (due to the process of press annealing).
  3. Flatness is for plate without being cut. It is not to ensure warping caused by cutting work.

#### **HEADQUARTER**

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