Features

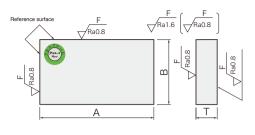
- Alumigo Hard has the highest hardness of all aluminum alloys.
- Outstanding thermal conduction
- •The thermal conduction of Alumigo Hard is about three times that of steel and mold temperature stability is better than steel, supporting good molding start-up.
- Cooling times can be greatly reduced, improving molding cycles.
- Lightweight: The specific gravity of Alumigo Hard is 2.82, about one-third that of steel, making it easier to handle and improving work safety.
- Excellent machinability: The excellent machinability makes it possible to greatly reduce processing times.
- Machining speeds three or more times faster than steel are possible with wire cut discharge and discharge machining.
- Excellent precision: Standard, high-quality plate can be provided quickly

Α	В				T (thickness)			
(length)	(width)	15	20	25	30	35	40	45
60			0	0	0	0	0	0
100			0	0	0	0	0	0
200	60		0	0	0	0	0	0
300	80	0	0	0	0	0	0	0
400				Ö	0	0	0	0
500				Ö	Ö	Ö	Ŏ	Ō
80			0	Ŏ	Ŏ	Ŏ	Ō	Ō
100			0	Ö	Ö		0	
125			Ö	Ö	Ö	Ö	Ö	Ö
150			Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ö
200	80		Ö	Ö	Ŏ	Ö	Ö	Ö
250			Ö	Ö	Ö	Ö	Ö	Ŏ
300		0	Ö	Ö	Ö	Ö	Ö	Ŏ
400			Ö	Ö	Ö	Ö	Ö	Ö
500	1		0	Ö	0	0	Ö	0
100			Ö	Ö			Ö	Ö
125	1		0	Ö	0	0	0	Ö
150	1						0	
200			0					
250				Ö			0	
300	100	0	0	0		0	0	
350			Ö	Ö		0	0	
400				0		0	0	0
450				0				
500	-		0	0			0	0
125			×	×	0	0	Ö	0
150	-		0	0	0			<u> </u>
200				Ö			Ö	
250	-		0	0	0		0	
300	125				Ö		0	
	125					0		0
350			0	0	0	0	0	
400 450			0	0	0		0	0
500			0	0			0	
							0	0
150			0	0	0	0	0	0
200 250	-		0	0	0	0	0	
300		0	0	0	0		0	
	150	0	0	0	0	0	0	
350 400			0	0	0	0	0	
450	-))	0	0	0	0
	-		0	0	0	0	0	
500								
180 200	-		0	0	0	0	0	
			0	0	0	0	0	0
250	-		0	0	0	0	0	
300	180		0	0	0	0	0	
350 400	-					0	0	0
	-		0	0	0	_		
450			2	0	0	0	2	
500				0				

Product Lineup

For General Dies and Jigs





A	В				T (thickness))		
(length)	(width)	50	60	65	70	80	90	100
60		0	0					
100		Ö						
200	60	0						
300	00	0						
400		0						
500		0						
80		0	0	0	0	0		
100		0	0	0	0			
125		<u> </u>	0	0	0			
150	00	0	0	0	0			
200	80	0	0	0	0			
250 300		0	0	0	0			
400		0		0	0			
500		0		0	0	0		
100		0	Ö	Ö	0	Ö	0	0
125		Ö	Ö	0	0	Ö	0	Ö
150		Ö	Ö	0	Ö	Ö	0	Ö
200		Ö	Ö	Ö	Ö	Ŏ	Ö	Ŏ
250	100	Ŏ	Ŏ	Ö	Ö	Ö	Ö	Ö
300		Ö	Ō	Ō	Ō	Ō	Ö	Ō
350		0	0	0	0	0	Ō	0
400		0	0	0	0	0	0	0
450		0	0	0	0	0	0	0
500		0	0	0	0	0	0	0
125		0	0	0	0	0	0	0
150		0	0	O O	0	0	0	0
200		<u> </u>	0	O O	0	0	<u> </u>	0
250	405	0	0	0	0	0	0	0
300	125	0	0	0	0	0	0	0
350 400		0	0	0	0	0	0	0
450		0			0	0	0	
500				Ö	Ö	Ö	0	
150		0		0	0		0	0
200		Ö					0	
250		Ö	Ö	0	Ö	Ö	Ö	Ö
300	450	Ö	Ö	Ö	Ö	Ŏ	Ö	Ö
350	150	Ö	Ŏ	Ö	Ö	Ö	Ö	Ö
400		Ŏ	Ö	Ö	Ö	Ö	Ö	Ö
450		0	Ō	Ö	Ō	Ō	Ö	0
500		Ö	Ö	Ō	0	0	Ö	0
180		0	0	0	0	0	0	0
200		0	0	0	0	0	0	0
250		0	0	0	0	0	0	0
300	180	<u> </u>	0	O O	<u> </u>	0	0	0
350		0	0	Q	0	0	0	0
400		0	0	0	0	0	0	0
450		0	0	0	0	00	0	0
500		0			0		0	

🕬 **X7**— Alumigo Hard Plate

Standard Size Table for Estimates
How to order: material thickness (T) x length (A) x width (B) = number of plates

Α	В	T (thickness)							
(length)	(width)	15	20	25	30	35	40	45	
200		0	0	0	0			0	
250	1				0			0	
300	1 1		0	0	0	0	0	0	
350	200		0	0	0	0		0	
400] [0	0	0	0		0	
450	1		0	0	0	0	0	0	
500	1 1		0	0	0	0		0	
250		0		0	0	0		0	
300	1	0	0	0	0	0	0	0	
350	250		0	0	0	0	0	0	
400	250		0	0	0	0	0	0	
450	1		0	0	0	0	0	0	
500	1		0	0	0	0	0	0	
300			0	0	0	0		0	
350	1 I			0	0	0	0	0	
400	300	0	0	0	0	0	0	0	
450	300			0	0	0		0	
500	1		0	0	0	0	0	0	
600	1			0	0	0	0	0	
350			0	0	0	0		0	
400	1			0	0	0		0	
450	350			0	0	0		0	
500	1		0	0	0	0		0	
600]			0	0	0	0	0	
400			0	0	0	0		0	
450	1 400			0	0	0		0	
500	400		0	0	0	Ō		0	
600	1		Ō	Ö	Ō				

[💥] We also handle materials such as JIS H4000-2017, 5052, and 6061. Specify sizes or special-order products by diagram.

- Black scale cut products also available
- Maximum size: 2410×1360
- Material T dimensions: 10.3, 12.7, 13.5, 16.5, 21.5, 23.5, 26.5, 31.5, 36.5, 41.5, 46.5, 51.5, 56.5, 61.5, 66.5, 71.5, 81.5, 91.5, and 101.5.

A	В				T(thickness)			
(length)	(width)	50	60	65	70	80	90	100
200		0	0	0	0	0	0	0
250		0	0	0	0	0	0	0
300		0	0	0	0	0	0	0
350	200	0	0	0	0	0	0	0
400		0	0	0	0	0	0	0
450		0	0	0	0	0	0	0
500	1	0	0	0	0	0	0	0
250		0	0	0	0	0	0	0
300		0	0	0	0	0	0	0
350	250	0	0	0	0	0	0	0
400		0	0	0			0	0
450		0					0	
500		0		0	0		0	0
300		0						0
350		0						
400	300	0					0	
450	300	0		0	0		0	0
500		0		0	0			0
600		0						0
350		0						0
400		0	0	0	0	0	0	0
450	350	0	0	0	0	0	0	0
500		0		0	0	0	0	0
600				0	0	0	0	0
400				0		0	0	0
450	400	Ō	Ō	0	0	0	0	0
500	700	0		0		0	0	0
600		Ŏ		Ö	Ō			Ŏ

 $[\]ensuremath{\mathbb{X}}$ We can also supply machined products. See page 18 for machining specifications.

回り スラー Alumigo Hard Round Stock

Expanded Series of Alumigo Hard Materials—Harder than Steel

Round Stock Has Been Added to the Lineup of Popular Alumigo Hard Plate Products

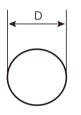
- The same hardness as Alumigo Hard plate.
- Alumigo Hard round stock respond to the calls for lower weight and faster shipping times. supporting application development in new fields.

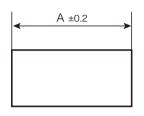
[Physical and Mechanical Properties]

Property Material	Tensile strength N/mm²	Durability 0.2%N/mm²	Elongation %	Brinell hardness HB	Specific gravity 20°C	Thermal conductivity W/m·K	Coefficient of thermal expansion ×10 ⁻⁶ /k	Longitudinal elastic modulus N/mm²
Alumigo round stock*	650	600	7	197	2.84	138	23.7	73
S50C	610	390	18	179	7.90	47	11.7	206

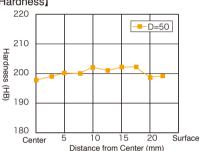
^{*}Data are D50 reference values.

[Specifications]





[Hardness]



How to order Alumigo Hard round stock: Exterior diameter (D) x length (A) = number of units Example: Alumigo Hard round stock $50 \times 150 = 5$

[Round Stock Inventory]

Unit/mm

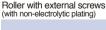
D	Extruded stock	D20, D30, D50, D60, D80, D100, D130, D150 D (diameter) tolerances are greater or less than nominal values in compliance with JIS standards.
(exterior diameter)	Machined stock	Can be manufactured from D15 to D149. D (diameter) tolerances are manufactured +0.30.

^{*}When placing orders, please confirm inventories.

[Usage Examples]

Shaft with internal screw hole







Flange (with white alumite processing)



^{*}Machined stock has a center hole on both ends.

Aluminum Product Lineup

Material name	Alloy type	Uses	Applications	Rectan- gular stock	Round stock	Sectional stock
A2017	AI-Cu (2000 type)	General strengthened material Gears, hydraulic components	Corrosion resistance is not good, but strength is high; used as a structural material	0	0	
A2024	AI-Cu (2000 type)	General strengthened material Gears, hubs	Corrosion resistance is not good, but strength is high; used as a structural material		0	
A5052	AI-Mg (5000 type)	General machine components Boats, automobiles	The most representative aluminum alloy with medium strength; has relatively high fatigue resistance for its strength and excellent seawater resistance	0	0	
A5083	AI-Mg (5000 type)	General machine components Pressure containers, low-pressure tanks	Allow for welded structures. Has the highest strength of a non-heat treated, corrosion-resistant alloy; suitable for welded structures. Good seawater resistance and low-temperature properties.	0	0	
A6061	AI-Mg-Si (6000 type)	General machine components Boats, automobiles, ground structure	Heat-treated corrosion resistant alloy. Used for bolted and riveted structures.	0	0	
A6063	AI-Mg-Si (6000 type)	General machine components Buildings, furniture, household appliancese	A representative extruded alloy. Not as strong as 6061, but has excellent extrusion properties and can be formed into complex shapes. Good corrosion resistance and surface treatment properties.			0
A7075	AI–Zn–Mg (7000 tyoe)	Dies, jigs General machine components Base plates	Has one of the highest strengths of an aluminum alloy but has poor corrosion resistance.	0	0	

^{*} Circles indicate products handled by Daido.

Machined Products

We can also machine Alumigo Hard standard plates and Alumigo Hard special-order plates.

(Please contact your nearest sales office for details.)

