

Alumold® 500



A unique aluminum mold plate that has been successfully substituted for P-20 steel in a multitude of mold applications

Alumold® 500 is a material that more than pays for itself. Through better thermal conductivity, which improves cycle time, ease of machining and polishing, weight reduction compared to steel, dimensional stability, and consistent through thickness hardness qualities, this material will offer reduced operating costs while delivering you an improved quality of parts. Offered in rolled and forged thicknesses, Alumold® 500 is a driving force that offers more efficiency, better responsiveness, and most importantly higher profitability.

Why Alumold® 500?

- 4 times greater thermal conductivity than P-20
- Twice as light as steel & offers the same features
- Can be machined on existing equipment
- Improved quality of parts
- Polishing & etching 4 to 10 times quicker than steel
- All plates heat treated & stress relieved
- Accepts numerous surface treatments for increased hardness



Mechanicals: Alumold® 500 Rolled

Thick	Typical Yield (ksi)	Typical Ultimate (ksi)	Brinell	Elongation%
1" - 3"	78	85	185	10
3" - 5"	76	84	185	6
5" - 6"	75	82	180	4
6" - 8"	73	80	180	2

Mechanicals: Alumold® 500 Forged

Thick	Typical Yield (ksi)	Typical Ultimate (ksi)	Brinell	Elongation%
10"-11"	67	76	180	9
11"-15"	65	76	175	8
15"-17"	62	76	170	8
17"-27"	60	70	165	7

Alro stocks thicknesses up to 20"
Over 20" thick please inquire

Physicals: Alumold® 500 Rolled & Forged

Thermal Conductivity:	88 BTU/ft.hr./ft ² °F	same
Coefficient of Thermal Expansion	13.2 x 10 ⁻⁶ /in.°F	same
Density	0.102/in ³	same
Modulus of Elasticity	10.6 x 10 ⁶ lb./in ² Compressive	10.4x10 ⁶ lb./in ² Tensile

Inquire about our precision aluminum plate saw cutting capabilities with tight tolerances and quick delivery.

America's Premier Metals & Plastics Service Center



Alro Steel
Metals & Plastics

alro.com



Alro Locations



● **Metals** ● **Plastics** ● **Outlet Stores**

Over 80 Locations in 16 States!

- | | | |
|----------|----------------|--------------|
| Florida | Michigan | Pennsylvania |
| Illinois | Missouri | Tennessee |
| Indiana | New York | Virginia |
| Iowa | North Carolina | Wisconsin |
| Kentucky | Ohio | |
| Maryland | Oklahoma | |



Pictured, the Alro Steel facility in Pottsville, Michigan



Alro Steel was founded in 1948 by brothers Al and Robert Glick in Jackson, Michigan. The company is a distributor of metals and plastics. Alro is focused on offering cut-to-size metals and plastics with next day delivery to over 50,000 customers in North America. Alro operates over 80 locations in 16 states and provides a broad inventory of products under the following companies: Alro Steel, Alro Metals, Alro Metals Outlet, and Alro Plastics. Focused on exceeding our customers' expectations, we build relationships with all our customers, large and small. [To learn more, please visit alro.com.](http://alro.com)

Metals	Bar	Pipe & Tube	Plate & Sheet	Structural	Grating & Exp. Metal
Alloy	●	●	●		
Aluminum	●	●	●	●	●
Brass	●		●		
Bronze	●	●			
Carbon Steel	●	●	●	●	●
Cast Iron	●	●			
Copper	●	●	●		
Stainless Steel	●	●	●	●	●
Tool Steel	●		●		

e-Business Solutions

- Alro Online Store (MyAlro.com)
- Customized Summary Billing
- Tool Management Solutions
- B2B Transactions

Ask your Alro Representative for details!

America's Premier Metals & Plastics Service Center



Alro Steel

Metals & Plastics

Since 1948

