

## Clinton Aluminum Alumold 1-500 Forged

Category : Metal , Nonferrous Metal , Aluminum Alloy

### Material Notes:

Alumold 1-500 Forged is a high quality, high strength aluminum alloy intended for the plastic forming industry and for other tooling applications. With its high strength and surface hardness it is suitable for polishing and texturing and is weldable. It is supplied in the forged, heat treated, quenched, cold compressed and aged condition. Alumold 1-500 Forged possesses better than normal mechanical properties in all sizes, excellent thermal conductivity and very good machinability together with good stability. Applications: Blow Molding Injection Molding RIM-Molding Vacuum Forming Foam Molding Holders and Support Plates Jig and Fixtures Die Sets Machine Frames

Technical Properties High Thermal Conductivity - Reduction in cycle time, maintenance of consistent processing temperature and better plastic part dimensional control Good Corrosion Resistance - Against most plastic materials Machinability - Reduction of machine time lowers tooling costs and improves delivery time Surface treatment - Can be anodized, hard chromed and nickel plated to increase wear and corrosion resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clinton-Aluminum-Alumold-1-500-Forged.php](http://www.lookpolymers.com/polymer_Clinton-Aluminum-Alumold-1-500-Forged.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	170	170	
Tensile Strength, Ultimate	483 MPa	70000 psi	18-20in thickness
	524 MPa	76000 psi	7-11in thickness
	524 MPa	76000 psi	11-15in thickness
	524 MPa	76000 psi	15-17in thickness
	534 MPa	77400 psi	6-7in thickness
Tensile Strength, Yield	414 MPa	60000 psi	18-20in thick
	@Strain 0.200 %	@Strain 0.200 %	
	463 MPa	67100 psi	11-15in thick
	@Strain 0.200 %	@Strain 0.200 %	
	463 MPa	67100 psi	15-17in thick
@Strain 0.200 %	@Strain 0.200 %		
463 MPa	67100 psi	7-11in thick	
@Strain 0.200 %	@Strain 0.200 %		
473 MPa	68600 psi	6-7in thick	
@Strain 0.200 %	@Strain 0.200 %		
Elongation at Break	7.0 %	7.0 %	18-20in thickness

Mechanical Properties	Metric	English	Comments
	9.0 %	9.0 %	11-15in thickness
	9.0 %	9.0 %	15-17in thickness
	10 %	10 %	6-7in thickness
Modulus of Elasticity	71.7 GPa	10400 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	152.2 W/m-K	1056 BTU-in/hr-ft <sup>2</sup> -°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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