



ALUMINIUMS Alloys ALUMOLD 1 500F

ALUMINIUM PLATE TYPE 7XXX FORGING THICKNESS 175 TO 500

As regards forging, we obtain better mechanical characteristics and greater elongation.

Mechanical characteristics

Thickness mm	Guaranteed minimum			Typical values			Hardness HBS
	R _m MPa	R _{p0.2} Mpa	A %	R _m MPa	R _{p0.2} Mpa	A %	
From 175 to 200	475	420	4	530	470	10	180
From 200 to 300	465	400	3,5	520	460	9	175
From 300 to 400	450	370	3	520	460	9	175
From 400 to 450	440	350	3	520	460	9	160

Physical properties

Specific weight Kg/dm ³	Linear expansion coefficient (0-100°C) 10/°C	Thermal conductivity (0-100°C) W/m.°C	Specific heat J/kg.°C	Modulus of elasticity Mpa	Compression modulus Mpa	Poisson Ratio	Melting range °C
2,82	23,7	153	857	72.000	73.000	0,33	475-630

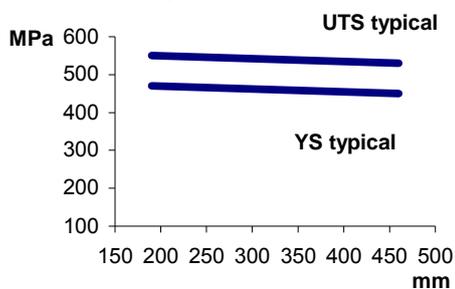
Technological suitabilities

Welding		Anodized	Mechanization	
Filling (TIG)	Good DC/Helium rod 5180, 5356, 4047, 4145	For protection	B	Chip fragmentation
		Decorative	avoid	Surface gloss
		Hard	MB	

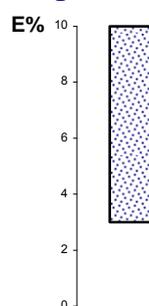
Applications

Prototype moulds and medium-sized and large moulds for plastics' injection.
Moulds for blowing and thermoforming.
Machine elements, etc.

Mechanical properties



Elongation



Hardness

