Alloy 6082 by nissal newmet

cording to EU directives: 2000/53/CE (ELV) - 2011/65/EU (RoHS II)

Color code EU **BLUE**

PRODUCTION PROGRAM			
Unit:mm	●	⬢	■
Drawn	10 ÷ 65	10 ÷ 36	20 ÷ 36
Extruded	20 ÷ 120	20 ÷ 36	20 ÷ 36

Aluminium alloy 6082 is a medium strength alloy with excellent corrosion resistance and excellent weldability. Alloy 6082 is typically used in highly stressed applications, structural parts for ground, Trusses, Bridges, Cranes, Transport applications,food industry, Beer Barrels.

CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Bi	Other	Al
0.70÷1.30	≤0.50	≤0.10	0.40÷1.00	0.60÷1.20	≤0.25		≤0.20	≤0.10			Each 0.05 Total 0.15	Remainder

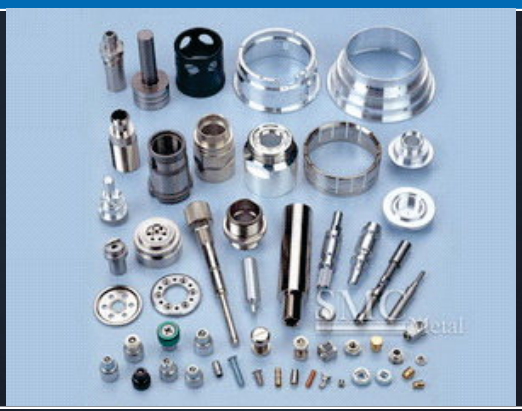
PHYSICAL PROPERTIES

Density	$\frac{Kg}{dm3}$	2.71
Modules of elasticity	MPa	69.000
Coefficient of thermal expansion	$\frac{x10^{-6}}{°C}$	24
Thermal conductivity at 20°C	$\frac{W}{mk}$	167
Typical electrical resistivity at 20°C	$\frac{\Omega mm^2}{m}$	0.037

MECHANICAL PROPERTIES

	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Tipical
Drawn	T6	≤80	310	255	10	95
Extruded	T6	≤150	310	260	8	95
	T6	150<D≤200	280	240	6	95
	T6	200<D≤250	270	200	6	95

PROPERTIES	T6
Mechinability	●●○○○
Protective anodizing	●●●○○
Decoratice anodizing	●●●○○
Hard anodizing	●●●●●
Resistance to atmospheric corrosion	●●●●●
Resistance to marine corrosion	●●●○○
MIG-TIG weldability	●●●●●
At resistance weldability	●●●●●
Brazing weldability	●●●●●
Plastic farmability when cold	●●○○○
Plastic farmability when hot	●●●○○



Legend

●●●●●	●●●○○	●●○○○	●○○○○
Excellent	Good	Acceptable	Not recommended

email: office@nissal.co.rs
info@newmetag.com