TVH® TV 2011 (AA 2011)

Density 2,83 g/cm^3

Aluminium alloy according to EU directives: 2000/53/CE (ELV) – 2002/95/CE (RoHS)

Specifications:

TRAID	TVH®	TV 2011
D	DIN 1712/1725	3.1655
USA	A.A.	2011
E	UNE	L-3192

Nominal composition:

Al	Rest
Si	Max. 0,40 %
Fe	Max. 0,70 %
Cu	5 – 6 %
Zn	Max. 0,30 %
Pb	0,2 – 0,4 %
Bi	0,2 – 0,6 %

TEMPER	*PROPERTIES*	*RESULT*	*UNIT*
T6	Breaking load	360	Rm MPa
	Yield point	245	Rp 0,2 MPa
	Elongation	16	%
	Hardness	120	Brinell
T6	Breaking load	370	Rm MPa
	Yield point	280	Rp 0,2 MPa
	Elongation	15	%
	Hardness	115	Brinell
T8	Breaking load	400	Rm MPa
	Yield point	310	Rp 0,2 MPa
	Elongation	16	%
	Hardness	125	Brinell
T3/T6/T8	Modulus of elasticity	70.000	MPa
T3/T6/T8	Thermal expansion	22,90	10^{-6} / ºC
T3	Thermal conductivity	151	W/(K+m)
T8	Thermal conductivity	171	W/(K+m)
T3	Electrical resistivity	0,038	Ω mm^2/m
T8	Electrical resistivity	0,043	Ω mm^2/m

MAIN CHARACTERISTICS

Easy machining material
Cutting stress lower than most of other alloys
Longer life of cutting tools
High mechanical properties
Possible to anodize

INDUSTRY APPLICATIONS

Screws
Bolts
Nuts
Threaded bars

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