

# TVH® TV 2011 (AA 2011)

Density 2,83 g/cm<sup>3</sup>

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 <sup>-6</sup> / °C
T3	Thermal conductivity	151	W/(K+m)
T8	Thermal conductivity	171	W/(K+m)
T3	Electrical resistivity	0,038	Ω mm <sup>2</sup> /m
T8	Electrical resistivity	0,043	Ω mm <sup>2</sup> /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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