

TVH® TVAL10 (CuAl10Ni5Fe4)

Density 7,60 g/cm³

Aluminium bronze

Specifications:

TRAID	TVH®	TVAL10
D	DIN 1705	CuAl10Ni
F	AFNOR	U-A 10 N
GB	BS	
USA	CDA	C 65500

Nominal composition:

Al	8,5 – 11 %
Ni	4 – 6,5 %
Fe	3,5 – 5,5 %
Mn	Max. 3%
Cu	Rest

NOMINAL PROPERTIES	UNIT	CONTINUOUS CAST
Tensile strength R _m	MPa	700
Yield strength R _{p0,2}	MPa	300
Elongation A ₅	%	13
Brinell Hardness	HB 30	160
Modulus of elasticity E	GPa	118
Coefficient of expansion α	10 ⁻⁶ / K	16,20
Thermal conductivity	W / m . K	42
Electrical conductivity	m / Ω . mm ²	5
Electrical conductivity	% I.A.C.S.	8
Specific heat	J / g . K	0,45

MAIN CHARACTERISTICS

Good strength properties
 Sea water resistant

INDUSTRY APPLICATIONS

Endless screws with high tooth pressures and good lubrication.

Notice: The information given was made with our knowledge indicating our product's possible applications. Existing commercial patents must be observed. These values represent averages taken from samples, so we reserve the right of technical alterations. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.traidvillarroya.com. Traidamid, TKG and TVH as well as their logos are registered trademarks of the Traid Villarroja group of companies, in Europe and other countries.