TVH® TV-ETP (Cu-ETP)

Density 8,92 g/cm^3
Electrolytic copper

Specifications:

TRAID	TVH®	TV-ETP
ISO		Cu-ETP
USA	UNS	C 11000

Nominal composition:

Cu	≥ 99,90 %
Others combined	0,0 – 0,1 %

NOMINAL PROPERTIES	*UNIT*	*CONTINUOUS CAST*
Melting point	ºC	1083
Thermal Expansion	10-6 /K	16,9
Modulus of elasticity E	GPa	117
Thermal conductivity	W/m.K	391,1
Electrical resistivity	IACS	100 %
Electrical resistivity	10-6 Ω .m	0,0171
Proof stress	MPa	50-340
Tensile strength R*m*	MPa	200-400
Elongation A_5	%	5-50
Vickers Hardness	HV	40 to 120

MAIN CHARACTERISTICS

Corrosion resistance: Either good or excellent in most environments and atmospheres other than those containing ammonia ions.
Cold working: Can be readily cold worked. When in the annealed condition, it can be readily bent to shape and has excellent ductility.
Hot working: Very readily hot worked.
Heat treatment: Solution treatment or annealing can be done by rapid cooling after heating to 370-650ºC.
Machinability: Material has a machinability rating of 20 where brass TVH® TV39 is 100.
Weldability: Soldering of TVH® TV-ETP is excellent. Brazability and butt welding are also rated as good. Gas shielded arc welding has a fair rating. All other welding processes are not recommended.

INDUSTRY APPLICATIONS

General engineering
Electronics
Busbars
Automotive
Domestic appliances
Cold forming components

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