

TVH® TV39 (CuZn39Pb3)

Density 8,46 g/cm³ Free machining brass

Specifications:

TRAID	TVH®	TV39
D	DIN 1705	CuZn39Pb3
EUR	EN	CuZn39Pb3
GB	BS	CZ121Pb3
USA	UNS	C 38500

Nominal composition:

Cu	57,50 %
Pb	3,30 %
Zn	Rest

PROPERTIES	UNIT	VALUE
Electrical conductivity	MS/m	14.60
Thermal conductivity	W(m*K)	113
Thermal expansion coefficient	(0-300°C) 10 ⁻⁶ /K	21.40
Modulus of elasticity E	GPa	96

MECHANICAL PROPERTIES

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FABRICATION PROPERTIES

	Forming	
Machinability	100%	111 811
Capacity for being cold worked	Poor	
Capacity for being hot worked	Excellent	
	Joining	4/1/50-
Resistance welding	Fair	44 Min
Inert gas shielded	Poor	
Arc welding	Poor	
Hard soldering	Fair	
Soft soldering	Excellent	4
	Surface treatment	
Polishing	Good	
Mechanical	Good	
Electrolytic	Poor	
Electroplating	Excellent	

MAIN CHARACTERISTICS

Quite resistant against organic substances as well as neutral or alkaline compounds. Machining index of 100%.

 $\label{particularly} \mbox{ Particularly suitable for hot stamping when the forged parts are subsequently machined extensively.}$

 $\label{lem:commended} \mbox{ Recommended for applications where cold working with little reduction such as knurling is used.}$

The ductility of this material makes it particularly suitable for the manufacture of wires as well as bars and sections.

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