

# CUPRAL 6

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Chemical Composition	Al	Fe	Mn	Cu
	13.5-13.7	4.5-5.0	max2	rest

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Code

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**Material Properties**      Stands out with its hardness, wear resistance, perfect compression and sliding properties.  
Due to its low proportional elongation, narrow sections should be avoided.

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**Application Area**      Guide shafts and supports designed for polishing, screw chucks for straightening, bending tools, guides and wear plates.

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**Heat Treatment**      Not necessary.  
If there is intensive machining, stress relieving is recommended.

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Mechanical Properties	Hardness	HB	320-350
	Tensile strength	N/mm <sup>2</sup>	700-800
	Yield strength	N/mm <sup>2</sup>	400-500
	Elongation (L= 5D)	%	~1
	Modulus of elasticity (20 °C)	GPa	120

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Physical Properties	Electrical conductivity	MS/m	6
	Coefficient of thermal expansion (273 - 573 K)	10 <sup>-6</sup> /K	16.2
	Thermal conductivity(20 °C)	(W/mK)	42
	Density	(g/cm <sup>3</sup> )	7.25

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