

# CUPRAL 12

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Chemical Composition	Al	Fe	Mn	Co	Cu
	14-14.4	5.0-5.3	2.5-4.5	1.0-2.0	rest

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Code

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**Material Properties** Abrasion resistance is very high. Compared to standard drawing bronze, has 2 times longer life. It also has high metal removal capability. Easier to process.

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**Application Area** Form rollers in the manufacture of pipes, Induction welding in pipe manufacturing reels, Deep drawing dies, Used as moulding material in the manufacture of all stainless steel kitchen utensils like sinks, pots, kettles etc.

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**Heat Treatment** If there is intensive machining, stress relieving is recommended.

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Mechanical Properties	Hardness	HB	380-420
	Compressive strength	N/mm <sup>2</sup>	1650
	Elongation L=5D	%	-
	Modulus of elasticity (20 °C)	GPa	-

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Physical Properties	Electrical conductivity	MS/m	4.5
	Coefficient of thermal expansion (273 - 573 K)	10 <sup>-6</sup> /K	16
	Thermal conductivity (20 °C)	(W/m.K)	30
	Density	(g/cm <sup>3</sup> )	6.9

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