

Laboratory	Ordnance Factory Katni Laboratory, Katni Premises, Katni, Madhya Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.05.2016
Certificate Number	T-0146	Valid Until	23.05.2018
Last Amended on	25.07.2016	Page	1 of 3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	METALS & ALLOYS			
1.	Pure Copper, Electrolytic Copper	Sn	BS EN 15079: 2015(E)	0.003 % to 1.0 %
		Pb		0.0005 % to 2.0 %
		Fe		0.0003 % to 1.0 %
		Ni		0.0002 % to 0.1 %
		As		0.0002 % to 0.5 %
		Sb		0.0005 % to 0.5 %
		Bi		0.0005 % to 0.3 %
		P		0.0001 % to 0.5 %
		Mn		0.0002 % to 0.5 %
		Zn		0.0005 % to 0.1 %
		Se		0.0002 % to 0.3 %
		Te		0.0003 % to 0.5 %
2.	Copper-Zinc alloys 70-30 Brass/ 63-37 Brass 60-40 Brass Lead Brass 90-10 Brass Gilding Metal	Sn	BS EN 15079: 2015(E)	0.002 % to 2.0 %
		Pb		0.002 % to 4.0 %
		Fe		0.001 % to 2.0 %
		Ni		0.001 % to 0.1 %
		As		0.001 % to 0.2 %

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Copper-Zinc alloys	Sb		0.0015 % to 0.4 %
	70-30 Brass/	Bi		0.001 % to 0.05 %
	63-37 Brass	Zn		0.002 % to 45 %
	60-40 Brass			
	Lead Brass			
	90-10 Brass			
	Gilding Metal			
3.	Copper-Nickel - Zinc alloys	Sn	BS EN 15079: 2015 (E)	0.001 % to 2.0 %
	Cupro Nickel	Pb		0.0015 % to 3.0 %
		Fe		0.001 % to 2.0 %
		Ni		0.001 % to 30 %
		As		0.005 % to 0.4 %
		Sb		0.002 % to 2.0 %
		Bi		0.0005 % to 0.2 %
		Mn		0.0001 % to 2.0 %
		Zn		0.002 % to 0.15 %
4.	Zinc Base Alloy/Mazak	Al	IS 2599: 1983 (IS 713: 1981)	3.0 % to 4.8 %
		Cu	Amd. 1: April 2011	0.0025 % to 1.4 %
		Mg		0.0090 % to 0.09 %
		Fe		0.020 % to 0.150 %

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