

PROPERTIES OF ELECTROLYTIC COPPER ROD (8.0mm dia) & ALLUMINIUM ROD (9.5 mm dia)

CHARACTERISTICS	UNIT	SPECIFICATIONS	
		Copper Rod (8.0mm dia)	Alluminium Rod (9.5mm dia)
Melting Point	°C	1083	660
Specific Gravity	-	8.89	2.7
Tensile Strength	Kgf/mm ²	22 (min)	10.5 (min)
Elongation	%	30 (min)	12 (min)
Electric Resistivity at 20°C	ohm.mm ² /m	0.017241(max)	0.027899 (max)
Volume Conductivity at 20°C	% IACS	100 (min)	61.8 (min)
temperature co-efficient of Resistance at 20°C	per°C	-	0.004
Co-efficient of Linera expansion	16 ⁻⁶ /°C	0.00393	-
Thermal Conductivity	Cal/cm ² /sec/°C/cm	17	24
Specific heat	Cal/g/°C	0.92	0.52
		0.092	0.23