

# Aluminum/Magnesium/Manganese/Chromium Alloy Tube (Al96.45/Mg 2.6/Mn 0.8/Cr 0.15)

**Formula:** Al96.45/Mg 2.6/Mn 0.8/Cr 0.15

**Outside Diameter:** 2.1mm

**Wall Thickness:** 0.25mm

**Inside Diameter:** 1.6mm

**Length:** 100mm

**Temper:** As Drawn

**UOM Code:** 453-257-17

**SKU:** 1000002649-group

**Product Code:** AD05-TB-000150

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	10
Modulus of elasticity( GPa )	70.5
Hardness - Vickers( kgf mm <sup>2</sup> )	60
Tensile strength( MPa )	159

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	5.1
Temperature coefficient( K <sup>-1</sup> )	-

### Thermal Properties

Element	Value
Melting point( C )	645
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	135@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	23.6@20-100°C

### Physical Properties

<b>Element</b>	<b>Value</b>
Density( gcm <sup>3</sup> )	2.69