

# Aluminum/Magnesium/Silicon Alloy Tube (Al98/Mg 1/Si 1)

**Formula:** Al98/Mg 1/Si 1

**Outside Diameter:** 12.7mm

**Wall Thickness:** 1.22mm

**Inside Diameter:** 10.26mm

**Length:** 100mm

**Temper:** Hard

**UOM Code:** 003-868-83

**SKU:** 1000000506-group

**Product Code:** AL08-TB-000200

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	65-95
Elongation at break( % )	20
Modulus of elasticity( GPa )	69
Tensile strength( MPa )	245-325

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	3.4-3.8
Temperature coefficient( $\text{K}^{-1}$ )	0.0031-0.0035

### Physical Properties

Element	Value
Density( $\text{gcm}^3$ )	2.69

### Thermal Properties

Element	Value
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	180-195@23°C

<b>Element</b>	<b>Value</b>
Coefficient of thermal expansion( $\times 10^{-6} \text{ K}^{-1}$ )	23@20-100°C