

# Metal Matrix Composite Aluminum/Copper Tube

**Grade:** Metal Matrix Composite

**Formula:** Al77.9/SiC17.8/Cu 3.3/Mg 1.2/Mn 0.4

**Outside Diameter:** 25.4mm

**Wall Thickness:** 1mm

**Inside Diameter:** 23.4mm

**Length:** 100mm

**Reinforced With:** Silicon Carbide Particles

**UOM Code:** 753-355-19

**SKU:** 1000022235-group

**Product Code:** AL42-TB-000150

## Material Properties for Composites

### Mechanical Properties

Element	Value
Elongation at break( % )	6
Volume fraction of SiC( % )	17
Tensile modulus( GPa )	100
Tensile strength - longitudinal( MPa )	610
Yield strength( MPa )	400

### Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	2.85