

Metal Matrix Composite Aluminum/Lithium Tube

Grade: Metal Matrix Composite

Formula: Al81/SiC15/Li 2/Cu 1.2/Mg 0.8

Outside Diameter: 24mm

Wall Thickness: 1mm

Inside Diameter: 22mm

Length: 100mm

Reinforced With: Silicon Carbide Particles

UOM Code: 737-634-55

SKU: 1000022149-group

Product Code: AL41-TB-000150

Material Properties for Composites

Mechanical Properties

Element	Value
Elongation at break(%)	2.3
Volume fraction of SiC(%)	13
Tensile modulus(GPa)	100
Tensile strength - longitudinal(MPa)	550
Yield strength(MPa)	500

Physical Properties

Element	Value
Density(gcm ³)	2.62