

Metal Matrix Composite Aluminum/Copper Foil

Grade: Metal Matrix Composite

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

Thickness: 2mm

Length 1: 10mm

Length 2: 10mm

Reinforced With: Silicon Carbide Particles

UOM Code: 300-684-23

SKU: 1000022215-group

Product Code: AL42-SH-000100

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 ³)	2.85