

Request for quotation for the material Aluminum silicon carbide (Metal matrix composites) from the materials suppliers. Please see below in table for the material compositions and specifications:

Material	Aluminium alloy	Silicon carbide	Dimensions
1	AA2124	10-25%	φ100X300mm
2	AA6061	10-40%	φ100X300mm
3	A359	10%	φ100X300mm

Applications

Typical applications

- Dies
- Fan blades
- Brake drum, brake discs
- Cylinder liners
- Cylinder block and piston
- Aircraft components
- Gun barrel

	Alloy 2124	Alloy 2024
Si	0.20	0.50
Fe	0.30	0.50
Cu.	3.8-4.9	3.8-4.9
Mn	0.30-0.9	0.30-0.9
Mg	1.2-1.8	1.2-1.8
Cr	0.10	0.10
Zn	0.25	0.25
Ti	0.15	0.15
Aluminum	Remainder	Remainder

Aluminium 6061

Aluminium	Balance
Magnesium	0.8-1.2
Silicon	0.4 – 0.8
Iron	Max. 0.7
Copper	0.15-0.40
Zinc	Max. 0.25
Titanium	Max. 0.15
Manganese	Max. 0.15
Chromium	0.04-0.35

Aluminium alloy for A359

Designation	Content (%)
Aluminum (Al)	89 - 91
Silicon (Si)	8.5 – 9.5
Manganese (Mn)	0.10 max
Magnesium (Mg)	0.40 - 0.6 max
Titanium (Ti)	0.20 max
Iron (Fe)	0.20 max
Copper (Cu)	0.20 max
Zinc (Zn)	0.10 max