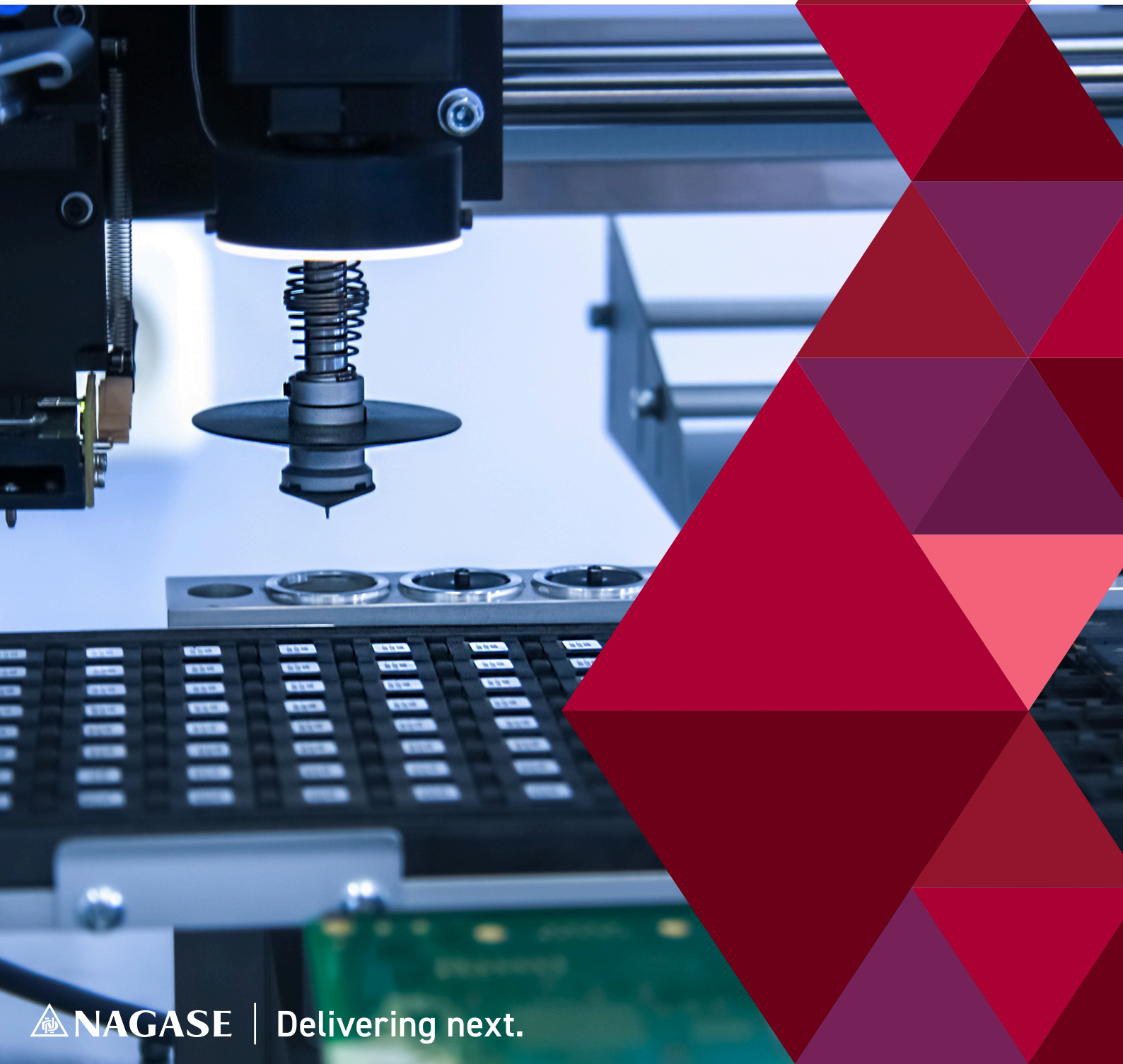




Materials for Power Devices and Electronic Components

Reflow Positioning Jigs

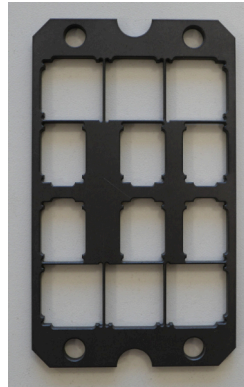


ACM-io

Graphite Reinforced Aluminium Matrix Composite

Advantages

- » Low coefficient of thermal expansion
- » High thermal conductivity
- » Enhanced strength
- » Reduced brittleness (compared with graphite materials)
- » Longer product life



Applicable for Soldering

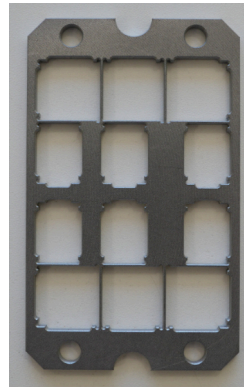


AC-Albolon

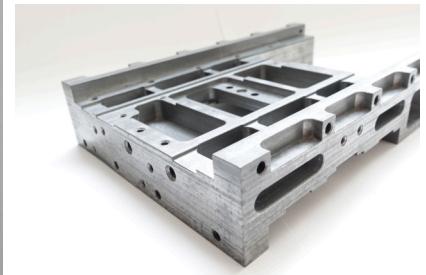
Ceramic Reinforced Aluminium Matrix Composite

Advantages

- » Tensile strength/young's modulus comparable to cast iron
- » Light weight equivalent to aluminium
- » Low coefficient of thermal expansion
- » Can be machined with carbide tools
- » Longer product life



Applicable for Sintering



Properties

Properties	ACM-io	AC-Albolon	Alu (A5052)	Carbon (CIP)	Cast Iron (FC250)
Matrix Material	Aluminium Alloy				
Reinforcement Material	Graphite	Aluminum Borate			
Density [g/cm ³]	2.1	2.8	2.7	1.8	7.3
Tensile Strength [MPa]	70	250	260	27	270
Young's Modulus [GPa]	16	120	68	11	120
Specific Heat [J/kg*K]	0.75	0.92	0.92	0.71	0.52
Thermal Conductivity [W/m*K]	164	81	137	128	50
CTE [ppm/K]	8	12	24	5	12
Standard Size [L x W x H, mm]	190x240x140 ^{*1,2}	200x200x80 ^{*1,2}			

^{*1} Other sizes are available upon request.

^{*2} Both materials are non-stick to most solder materials.

