

.64mm 2024 Aluminum

Details

Advertised Thickness	.64mm
Gauge	24
Thickness Tolerance Positive	.076mm
Thickness Tolerance Negative	.076mm
Cutting Process	Fiber Laser
Cut Tolerance +/-	.127mm

Available Operations

Deburring	No
Bending	No
Countersinking	No
Tapping	No
Anodizing	No
Plating	No
Powder Coating	No
Hardware	No

Design Considerations

Max Part Size	1117.6 x 762mm
Min Part Size	6.35" x 9.5mm
Min Hole Size	.38mm
Min Bridge Size	.38mm
Min Hole to Edge Size	.2mm
Tab and Slot Tolerance	.254mm

Properties

Density	190 lb/ft ³
Material Composition	Aluminum (Al): 90.7 – 94.7 Copper (Cu): 3.8 – 4.9 Magnesium (Mg): 1.2 – 1.8 Manganese (Mn): 0.3 – 0.9 Silicon (Si): 0 – 0.5 Iron (Fe): 0 – 0.5 Zinc (Zn): 0 – 0.25 Zirconium (Zr): 0 – 0.2 Titanium (Ti): 0 – 0.15 Chromium (Cr): 0 – 0.1 Residuals: 0 – 0.15
Tensile Strength (Ultimate)	69 ksi
Tensile Strength (Yield)	47 ksi
Shear Strength	41 ksi
Shear Modulus	3900 ksi
Fatigue Strength	20 ksi
Brinell Hardness	120
Elongation at Break	0.15

Elastic Modulus	10000 ksi
Poisson's Ratio	0.33
Thermal Conductivity	70 BTU/h-ft-°F
Melting Point	930°F
Magnetic	No