



Aluminum Coil Anodizing Corporation
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Product Specification Document

ACAD-165YM-MA/JA Rev 2

Product ID: 165YM-MA/JA Medium Etch Brush Electrolytic Bronze

Application: Interior Architectural / Decorative

Material Specification:

Alloy: 5005

Temper: H14

Mechanical Properties (typical):

Tensile Strength: 165 N/mm² (24,000 psi)

Yield Strength: 145 N/mm² (21,000 psi)

Elongation: 5%

Minimum Bend Radii: 0T

Specifications are typical and not for Engineering use

Optical / Anodized Properties:

Total Reflectance (TR%)¹: n/a% minimum

¹(Technidyne TR-2 (ASTM 1651-94))

Distinctness of Image (DI)²: n/a

²(Hunter Labs D47 Dorigon (ASTM E430-83))

Specular Reflectance (RS)²: n/a

³(DIN 67530)

15° Diffuseness (15°)²: n/a

⁴(Byk Gardner Micro Gloss Meter)

Dr. Lange 60°³: w/g n/a a/g n/a

⁵(ASTM B137-89)

Gardner 60° Gloss⁴: w/g 15-30 a/g n/a

⁶(Hunter Lab mini-Scan XE Plus)

Anodize Film Thickness⁵: 2.5-4.0 microns (.00014 to .00016 inch)

Iridescence Rating:

Color⁶: L* 42 to 46 a* .5 to 8.5 b* 10 to 20

Availability: Sheet and Coil

Gage: 0.30 to 1.27 mm (0.012 to 0.050 inch)

Width: 12.7 to 1250 mm (0.5 to 49.213 inch)

Length: up to 3660 mm (up to 144 inch)

Tolerances (standard): (Tighter tolerance may be possible. Contact your sales representative.)

Gage:	From:	0.25 to 0.40 mm	+/- 0.025 mm	(0.010 to 0.016 inch, +/- 0.001 inch)
		0.41 to 0.80 mm	+/- 0.040 mm	(0.017 to 0.032 inch, +/- 0.0015 inch)
		0.81 to 1.00 mm	+/- 0.050 mm	(0.033 to 0.040 inch, +/- 0.002 inch)

Slit Width:	From:	12.5 to 305 mm	+/- 0.125 mm	(0.5 to 12 inch, +/- 0.005 inch)
		306 to 610 mm	+/- 0.38 mm	(12.1 to 24 inch, +/- 0.015 inch)
		611 to 1250 mm	+/- 0.50 mm	(24.1 to 50 inch, +/- 0.020 inch)

Sheet:	Length:	Up to 1524 mm	+/- 1.0 mm	(Up to 60 inch, +/- 0.040 inch)
		1525 to 3050 mm	+/- 1.5 mm	(60 to 120 inch, +/- 0.060 inch)
		3051 to 3660 mm	+/- 2.0 mm	(120 to 144 inch, +/- 0.080 inch)

Squareness: ¹	Up to 1200 mm	+/- 0.5 mm	(Up to 48 inch, +/- 0.020 inch)	
		1201 to 2400 mm	+/- 1.0 mm	(49 to 95 inch, +/- 0.040 inch)
		2401 to 3660 mm	+/- 1.5 mm	(96 to 144 inch, +/- 0.060 inch)

¹ Difference in diagonals

Lateral Bow (in one meter):	Width Under 300 mm: 2.5 mm max.	(Width Under 12 inch: 0.100 inch)
	Width Over 300 mm: 1.25 mm max.	(Width Over 12 inch: 0.050 inch)

Flatness: Height between waves: 1% of wave length, 8mm (0.32 inch) maximum.

Burr: 10% of gage Not to exceed .08 mm (.003 inch)