



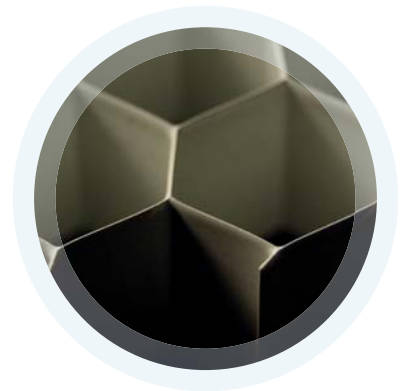
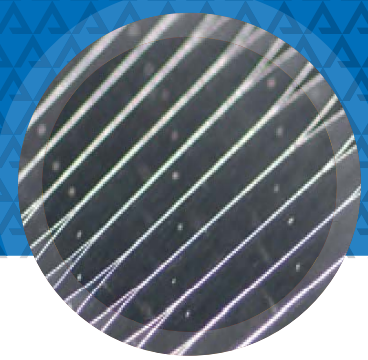
# ARGOSY ALUMINUM HONEYCOMB

## ARGOSY 5000 SERIES ALUMINUM HONEYCOMB

**ARGOSY 5000 Series Aluminum Honeycomb** is a lightweight honeycomb core that has a regular hexahedron structure; high-quality aluminum foil is selected for phosphorous anodization or chromizing. Features include low density, high strength, rigidity, shock resistance, sound shock absorption, acoustic absorption, and thermal insulation. The product displays excellent dynamic performance and corrosion resistance. Manufactured to AMS-C-7438 Standards.

## TYPICAL APPLICATIONS

**ARGOSY 5000 Series Aluminum Honeycomb** is widely used in aerospace components including radome, wing, tailcone, and floor applications.



## TECHNICAL DATA

	PRODUCT FEATURES
Density (g/cm <sup>3</sup> )	1.4 pcf - 9 pcf (22.4 kg/m <sup>3</sup> - 144 kg/m <sup>3</sup> )
Aluminum Foil Thickness	0.018 mm - 0.07 mm
Cell Specifications	1/8" - 3/8" (3 mm - 5 mm)
Side Length of Cell	1.8 mm - 5.5 mm
Thickness of Honeycomb Core Slice	0.12" - 35" (3 mm - 900 mm) tolerance +/- 0.008" (+/-0.2mm)
Length W and Width L	L: 48" typical - 72" max tolerance +6"/-0 W: 96" typical - 200" max tolerance + 6"/-0
BC-5.01-3-N-5052 (48L X 96W)	SERIES 5000 MARK OF SPECIFICATIONS
BC	B - Block; S - Slice; E - Expanded; C - Coated with Chromate; UC - Uncoated; NC - Non-Chrome Coated; PPA - Phosphate Anodization Treatment
5.01	Honeycomb Density, Unit: lb/foot <sup>3</sup>
3	Cell Size, Side Length of Cell, Unit: mm
N	N - Non-perforated; P - Perforated
5052	Aluminum Foil 5052
(48L X 96W)	48L - Length, Unit: inch; 96W - Width, Unit: inch

# MECHANICAL PROPERTIES

NOMINAL CORE DENSITY, PCF	CELL SIZE INCH	THICKNESS OF ALUMINUM FOIL INCH	COMPRESSIVE STRENGTH (PSI)	L SHEAR STRENGTH (PSI)	W SHEAR STRENGTH (PSI)
1	3/8	0.0007"	20.3	27.55	20.3
1.3	3/8	0.0011"	62.25	82.5	60.6
1.8	3/8	0.0016"	87	107.3	59.45
2.37	3/8	0.0020"	137.75	100	57
3.6	3/8	0.0028"	282.75	205	120
4.2	3/8	0.0030"	359.6	255	150
1.6	1/4	0.0007"	69.6	60	32
2.72	1/4	0.0016"	118.9	105	58
3.4	1/4	0.0020"	261	180	105
5.2	1/4	0.0028"	510.4	319	185.6
6.0	1/4	0.0030"	532.15	445	265
6.3	1/4	0.0032"	557.5	450	270
2.0	3/16	0.0007"	100.05	80	46
3.1	3/16	0.0011"	214.6	155	90
4.4	3/16	0.0016"	385.7	324.8	213.15
5.7	3/16	0.0020"	600.3	410	244
6.9	3/16	0.0025"	800.4	540	328
8.1	3/16	0.0030"	1100.55	437.9	285.65
4.5	1/8	0.0016"	533.6	285	168
10.9	1/8	0.0028"	1751.6	860	490
11.2	1/16	0.0020"	2125.7	1020	650

\*Information contained above is typical only and should be verified for any specific applications.

## FOR ADDITIONAL INFORMATION

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For more information, please visit [argosyinternational.com](http://argosyinternational.com)

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