



ARGOSY ALUMINUM HONEYCOMB

3000 SERIES ALUMINUM HONEYCOMB

ARGOSY 3000 Series Aluminum Honeycomb is a lightweight honeycomb core that offers superior strength and corrosion resistance to meet a broad range of demanding applications. It is a high performance, low-cost structural core material that is perfect for architectural, transportation, marine, and other industrial applications.

TYPICAL APPLICATIONS

ARGOSY 3000 Series Aluminum Honeycomb is utilized in a wide range of applications where: Lightweight, High flex strength, Corrosion-resistant, low-cost honeycomb core panels are desired. These include:

- + Marine interior panels
- + Automotive and truck panels
- + Industrial equipment
- + Tooling board
- + Energy Absorbing Applications
- + Architectural building panels and curtain walls
- + Rail and subway car flooring, wall and storage compartment panels
- + General door, shelving and cover panels
- + Airflow control

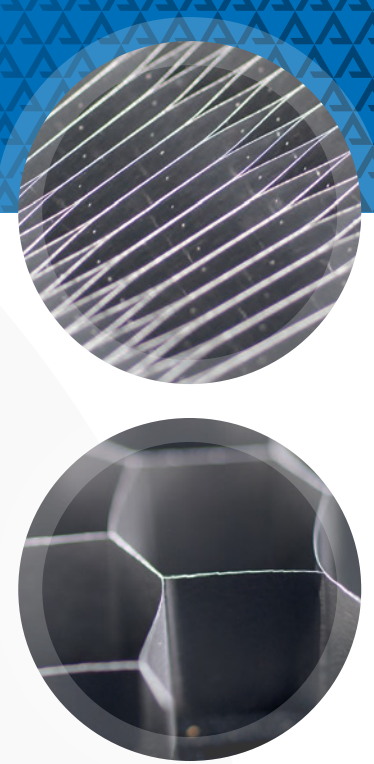
FEATURES

- + Excellent energy absorption qualities
- + Available with RoHS compliant chrome-free coating
- + Excellent strength-to-weight ratio over broad temperature range beyond 350°F/177°C
- + Corrosion and fungus resistant
- + Low cost/high value

HOW TO ORDER

When ordering, please specify material type using the following format: Example 5.2 1/4 -N-E

PRODUCT	DENSITY	CELL SIZE	PERFORATED OR NON-PERFORATED	EXPANDED OR UNEXPANDED
Aluminum Honeycomb	5.2	1/4	P or N	E or U



AVAILABLE DIMENSIONS AND TOLERANCES

	STANDARD		MAXIMUM		TOLERANCE	
	inches	mm	inches	mm	inches	mm
Ribbon (L)	48	1220	72	1829	+2.0 / -0.0	+50.8 / -0.0
Transverse (W)	96	2440	354	9000	+4.0 / -0.0	+101.6 / -0.0
Thickness (T) Block	N/A		34.5	876	+1.0 / -0.0	+25.4 / -0.0
Thickness (T) Slice	Up to 4 inches (102mm) T				±0.004	±0.1
Expanded Panel	Over 4 inches (102mm) T				±0.062	±1.575
Density	See Product Availability Chart				± 15%	
Cell Size	See Product Availability Chart				± 15%	

PRODUCT AVAILABILITY

ALLOY	NOMINAL CELL SIZE	NOMINAL DENSITY PCF	NOMINAL FOIL THICKNESS	
			INCHES	MICRONS
3000	3/16	4.4	.00185	47
3000	1/4	3.4	.00185	47
3000	1/4	5.2	.00285	72
3000	3/8	2.3	.00185	47
3000	3/8	3.6	.00285	72
3000	1/2	1.7	.00185	47
3000	1/2	2.6	.00285	72
3000	3/4	1.2	.00185	47
3000	3/4	1.8	.00285	72
3000	1	1.3	.00285	72

TYPICAL MECHANICAL PROPERTIES

CELL SIZE (INCHES)/ DENSITY (LBS)	STABILIZED COMPRESSION		PLATE SHEAR			
	STRENGTH (MPa)	MODULUS (MPa)	STRENGTH "L DIRECTION" (MPa)	MODULUS "L DIRECTION" (MPa)	STRENGTH "W DIRECTION" (MPa)	MODULUS "W DIRECTION" (MPa)
1/4 3.4	2.00	543	1.10	258	0.66	128
1/4 5.2	2.80	998	1.85	438	1.18	221
3/8 2.3	1.04	242	0.68	189	0.39	88
3/8 3.6	1.90	632	1.20	283	0.72	144
1/2 1.7	0.65	94	0.51	102	0.4	58
1/2 2.6	1.10	274	0.76	222	0.55	99
3/4 1.2	0.35	51	0.29	58	0.21	44
3/4 1.8	0.60	163	0.48	111	0.35	54
1 1.3	0.48	51	0.4	58	0.3	44

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

CRUSH STRENGTH

CELL SIZE	DENSITY	CRUSH STRENGTH (MPa)
1/4	3.4	0.95
1/4	5.2	1.48
3/8	2.3	0.48
3/8	3.6	0.92
1/2	1.7	0.3
1/2	2.6	0.51
3/4	1.2	0.16
3/4	1.8	0.29
1	1.3	0.18



FOR ADDITIONAL INFORMATION

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