

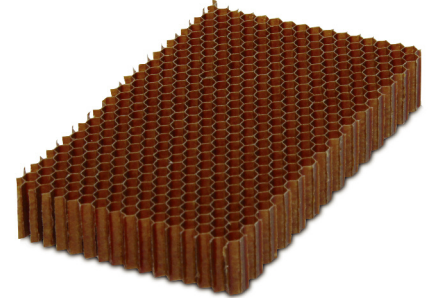


PRODUCT DATA SHEET

Gillcore™ HA Honeycomb

DESCRIPTION

Gillcore™ HA is a commercial grade Nomex® aramid fiber reinforced honeycomb which is coated with heat resistant phenolic resin. Gillcore™ HA is an economical alternative of Gillcore™ HD for non-aerospace applications. A wide selection of HA honeycomb types, including different cell sizes, cell geometries, paper thicknesses and densities are available.



APPLICATIONS

Sports and leisure industries such as surfboards, pleasure boats, skis and auto racing bodies.

Transportation industries such as train car panels and ground transportation structures.

Special projects for marine ground antennas, navy joiner panels and military shelters.



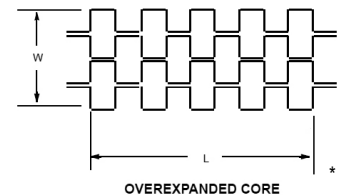
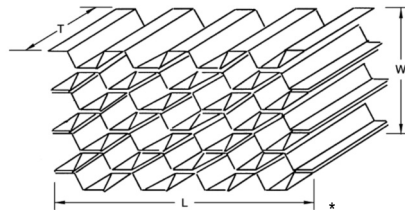
FEATURES

- High strength to weight ratio
- Corrosion resistance
- Fire resistant (self-extinguishing)
- Good thermal stability
- Good thermal and electrical insulating properties
- High toughness
- Good fatigue and impact resistance
- Good dielectric properties
- Good formability for curve forming

AVAILABILITY

Hexagonal Shaped Core
 L = Ribbon Dimension
 W = Dimension normal to ribbon
 T = Thickness dimension

* BMS 8-124 Specification



Available in sheet form or block form

Direction/Configuration	Hexagonal Core Ribbon dimension as block width	Hexagonal Core Ribbon dimension as block length	Overexpanded Core
L (Ribbon dimension)	Typical 48 inch (1,219 mm) Maximum 65 inch (1,651 mm)	Maximum 96 inch (2,438 mm)	Maximum 50 inch (1,270 mm)
W (Dimension normal to ribbon)	Typical 96 inch (2,438 mm) Maximum 144 inch (3,658 mm)	Maximum 48 inch (1,219 mm)	Maximum 96 inch (2,438 mm)
Thickness	0.200 inch (5.08 mm) - 34 inch (864 mm)		

CONSTRUCTION

Reinforcement: Meta-Aramid Nomex® paper, commercial grade

Resin: Phenolic



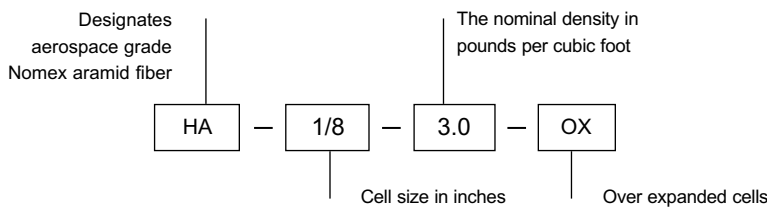
HEALTH PRECAUTIONS

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A MSDS is available at www.thegillcorp.com/products/msds/html.

For industrial use only. Keep away from children. Additional information can be found at: www.thegillcorp.com. For sales and ordering information call 1-626-443-6094.

PERFORMANCE PROPERTIES, TYPICAL

The following tests are run in accordance with BMS8-124 specification requirements.



Gilcore™ HA Honeycomb Description	Gilcore™ HA Honeycomb Configuration	Cell Size	Density	Compressive				Plate Shear							
				Bare		Stabilized		L Direction				W Direction			
				Strength		Strength		Strength		Modulus		Strength		Modulus	
				psi	MPa	psi	MPa	psi	MPa	ksi	GPa	psi	MPa	ksi	GPa
HA-1/8-3.0	HA132	3.2	48	286	1.97	300	2.07	212	1.46	6.82	0.05	99	0.68	3.91	0.03
HA-1/8-8.0	HA182	3.2	128	1,648	11.36	1,687	11.62	513	3.54	15.88	0.11	362	2.49	9.04	0.06
HA-3/16-4.0	HA343	4.8	64	436	3.00	458	3.16	312	2.15	9.30	0.06	162	1.12	4.74	0.03
HA-1/4-2.0	HA422	6.4	21	122	0.84	185	1.27	101	0.70	4.61	0.03	55	0.38	2.96	0.02
HA-3/16-3.0-OX	HA332O	4.8	48	281	1.94	314	2.17	117	0.81	3.01	0.02	135	0.93	5.88	0.04

Other cell size and density are available upon request.

Flammability: Gilcore™ HA honeycomb meets the flammability requirements of FAR 25.853 Appendix F Part I

All recommendations, statements and technical data herein are based on tests of Gilcore™ HA 0.500" samples we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.