



Advanced Honeycomb Technologies, Inc.

KRAFT PAPER HONEYCOMB ... STRUCTURAL GRADE ... AHK

AHK KRAFT PAPER/PHENOLIC COATED HONEYCOMB revised 5/28/92

AHN AHK is a structural Kraft paper honeycomb which conforms to MIL-H-21040 C and ASTM E 1091. It is primarily used as a high strength low cost core material in Air Transportable Shelters for the military. Not to be confused with commercial grade paper honeycomb, AHK is coated with phenolic resin after expanding and then heat cured imparting superior strength and water resistance to the material. The material exhibits high strength characteristics and is water resistant. It also provides good thermal insulation. It is available in two cell sizes and five densities to suit most purposes. Typical applications include light weight wall panels for military shelters, shelving, and non-structural facia panels for high rise construction.

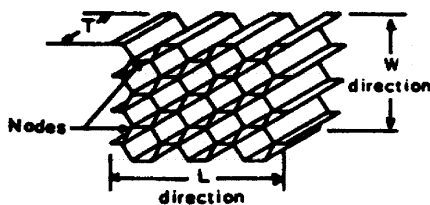
PRODUCT DESIGNATION

A variety of cell sizes, paper weights, resin coating weights, are available. Minimum strength characteristics are illustrated on the reverse side. The products are designated as follows:

AHK.....ADVANCED HONEYCOMB KRAFT

3/8.....CELL SIZE in inches

2500.....2.5 lb. DENSITY in pounds per cubic foot



Hexagonal Cell

SPECIFICATIONS

AHK Kraft honeycomb conforms to MIL-H-21040 C and ASTM E 1091. AHK Kraft paper honeycomb has been found to be very effective withstanding hot/wet environments. Mechanical properties are found on the reverse side of this data sheet.

AVAILABILITY

AHK is supplied in standard sheet sizes of 48" L by 96" W. The sheet thicknesses can be custom cut from .250 inches to 18 inches thick depending on the material cell size and density.

Special sheet sizes, both larger and smaller are available on a special order basis. Because of the special size, a minimum order may be required.

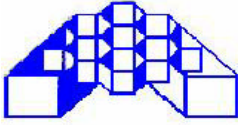
SHEET SIZE TOLERANCES

Length (W) & Width (L) = -0 +4 inches

Thickness (T) = +/- .010 to 4.00 inches

= .060 above 4.00 inches

Closer tolerances are possible and may carry a premium price.



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MECHANICAL PROPERTIES OF AHK KRAFT PAPER HONEYCOMB

Product Designation Cell Density	Compressive Strength Minimum		Shear Strength Minimum			
			Plate		Short Beam	
			L Direction	W Direction	L Direction	W Direction
Hexagonal Cell	Note 1	Note 2	Note 1	Note 1	Note 2	Note 2
AHK 2400-3/8-2.5	150	N/A	106	50	N/A	N/A
AHK 3000-3/8-3.0	210	198	140	75	85	57
AHK 3800-3/8-3.8	319	N/A	200	125	N/A	N/A
AHK 4000-3/8-4.0	340	404	225	130	180	113
AHK 6800-1/4-6.8	N/A	N/A	N/A	N/A	N/A	N/A

Note 1: Tested per MIL-H-21040C and MIL-STD-401B

Note 2: Tested per ASTM E 1091

Actual values obtained are normally significantly higher than values shown.

FOR INDUSTRIAL USE ONLY The above is made in lieu of all warranties, expressed, or implied: Seller's only obligation shall be to replace such quantity of this product which has proven to not substantially comply with the data presented in this bulletin. In the event of discovery of a nonconforming product, Seller shall not be liable for any commercial loss or damage, direct or consequential, arising out of the use of the inability to use the product. Before using, Buyer shall determine the suitability of the product for his intended purpose, and Buyer assumes all risk and liability whatsoever in connection therein. Statements relating to possible use of our product are not guarantees that such use is free of patent infringement or that they are approved for such use by any agency. The foregoing may not be changed except by an agreement signed by an officer of Seller.