



# ADVANCED HONEYCOMB TECHNOLOGIES

## OVERVIEW

Advanced Honeycomb Technologies (AHT), operating as a Kordsa company, manufactures a wide range of honeycomb core used in products as diverse as commercial and military aircraft, communications and transportation equipment, space vehicles, construction materials and recreational and sporting goods.

Located in San Marcos, California, the facility is equipped with an innovative research and development laboratory, efficient production equipment and is monitored by a quality control program.



## PRODUCTS

### AHN4120 Aramid Fiber/Phenolic Coated Honeycomb

AHN4120 is an Aerospace Grade Nomex® Honeycomb which exhibits high strength and toughness in a small cell, low density, non-metallic honeycomb. It is particularly noted for its corrosion resistance. This material is fire resistant and is typically used in transport aircraft construction where low O.S.U., smoke, and toxicity characteristics are a necessity. This material also exhibits good thermal insulation properties and also has good dielectric properties. This honeycomb is easily machined, formed, and shaped and well suited to adhesive bonding.

#### *Specifications*

AHN4120 honeycomb meets most aerospace specifications. These include the strength requirements of BMS 8-124, DMS 1974, AMS 3711, and MIL-C-81986.

#### *Availability*

AHN4120 is supplied in standard sheet sizes of 48"L by 96"W for hexagonal shaped cells and 38"L by 96"W for over-expanded shaped cells.

Special sheet sizes, both larger and smaller are available on a special order basis.

## **AHN7800 Aramid Fiber / Phenolic Coated Honeycomb**

AHN7800 is a Commercial Grade Nomex® honeycomb particularly suited for use where resistance to corrosive attack and moisture are important. This material exhibits good strength characteristics and is fire resistant. It is available in a variety of cell sizes and densities to suit most purposes. Typical applications include lightweight non-structural bulkheads for ships, joiner panels, shelters, antennas, and auto body panels. This material is not intended for aircraft or aerospace applications. This material also exhibits good thermal insulation properties and also has good dielectric properties. This honeycomb is easily machined, formed, and shaped and well suited to adhesive bonding.

### *Specifications*

AHN7800 is manufactured from an Commercial Grade Nomex® paper from DuPont and does not have the mechanical properties and flammability resistance levels required and specified for safety and performance in aircraft end-users.

### *Availability*

AHN7800 is supplied in standard sheet sizes of 48" L by 96" W for hexagonal shaped cells and 38" L by 96" W for over expanded shaped cells.

Special sheet sizes, both larger and smaller are available on a special order basis.

## **AHK Kraft Paper / Phenolic Coated Honeycomb**

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 fascia panels for high rise construction.

### *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.

### *Availability*

AHK is supplied in standard sheet sizes of 48" L by 96" W. The sheet thicknesses can be custom cut from .250" to 18" 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.

### **Advanced Honeycomb Technologies, Inc.**

1015 Linda Vista Drive, Building C San Marcos, CA 92078

Tel: 760-744-3200 • Website: [www.ahtinc.com](http://www.ahtinc.com) • E-mail: [info@ahtinc.com](mailto:info@ahtinc.com)