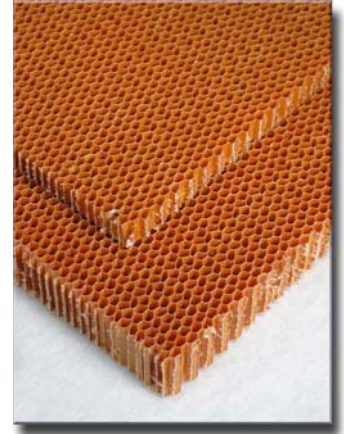


CORE MATERIALS

NOMEX® HONEYCOMB CORE

Standard Cell

Nomex® Honeycomb or equivalent Aramid Honeycomb is a lightweight, high strength, nonmetallic honeycomb manufactured from aramid fiber paper. After the honeycomb is formed, it is coated with a heat resistant phenolic resin to increase its strength. The core material exhibits high strength to weight ratio, low density, good thermal insulation and is very bondable. The honeycomb has a service temperature from -45°F to 350°F. Aramid fiber honeycomb is used as the core material in composite panels. These panels “sandwich” honeycomb between two “skins” which can be metal, carbon fiber, fiberglass, or any other thin yet strong material. Once these skins have been bonded to either side of the honeycomb, the resulting composite structure has extremely high strength-to-weight and rigidity-to-weight ratios. Aramid honeycomb is becoming increasingly used in high-performance non-aerospace components due to its high mechanical properties, low density and good long-term stability. The **Standard Cell** honeycomb is manufactured with the typical hexangular cell shape. It is best suited for flat panel applications or applications in which the core needs to conform to a slight curvature, such in Guitar Backs. The cell size is 3/16” and the density is 2 PCF



Standard Cell

.060" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NH-03	\$48.00
	48" x 48"	NH-04	\$88.00
	48" x 96" *	NH-05	\$160.00

.250" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NH-15	\$64.00
	48" x 48"	NH-16	\$120.00
	48" x 96" *	NH-17	\$224.00

.125" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NH-09	\$44.00
	48" x 48"	NH-10	\$80.00
	48" x 96" *	NH-11	\$144.00

.500" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NH-21	\$96.00
	48" x 48"	NH-22	\$184.00
	48" x 96" *	NH-23	\$352.00

* Add \$30.00 for crate. Will ship common carrier

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Flexible Cell



1/4" Thick Flexible Cell

In the flexible cell Nomex Honeycomb, the cell shape is rectangular, thereby allowing the core to flex in one direction easily. It is ideally suited for structures having tight radius curves. It can be rolled for shipping. The cell size is 3/16” and the density is 1.8 PCF.

.125" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NHF-01	\$80.00
	48" x 48"	NHF-02	\$152.00
	48" x 96"	NHF-03	\$288.00

.250" Thick	UNIT SIZE	PRODUCT #	PRICE
	24" x 48"	NHF-07	\$104.00
	48" x 48"	NHF-08	\$200.00
	48" x 96"	NFH-09	\$384.00

Typical Honeycomb Properties

Average Values 0.50" (12.7mm)	Cell Size Inch	Cell Size mm	Density PCF	Density kg/m ³	Compression Strength PSI	Compression Strength N/mm ²	L-Shear PSI	L-Shear N/mm ²	W-Shear PSI	W-Shear N/mm ²
Standard Cell	3/16	4.8	2.0	32	131	0.90	84	0.58	52	0.36
Flexible Cell	3/16	4.8	1.8	29	87	0.60	45	0.31	46	0.32

Order Desk: (800) 811-2009

Technical Assistance: (925) 443-5900