

AC-NH Aramid Paper Honeycomb Commercial Grade

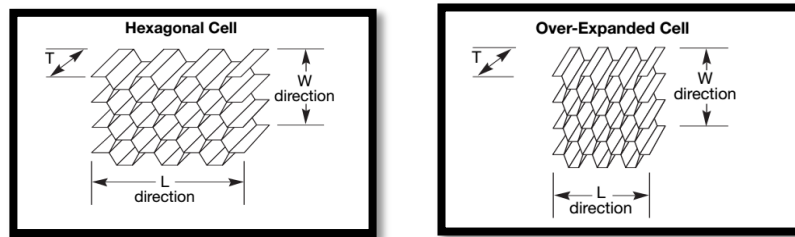
DESCRIPTION & FEATURES:

AC-NH: Meta-aramid paper honeycomb is manufactured with meta-aramid paper and coated with phenolic resin. It is light but with high strength. At mean time, it is flame resistant, corrosion resistant, electrical insulating and has anti-fatigue function.

APPLICATIONS:

AC-NH is widely used in aerospace, transportation structures, racing boats, vessel, antenna cover, military shelters, and special purpose panels.

DIMENSIONAL NOMENCLATURE:



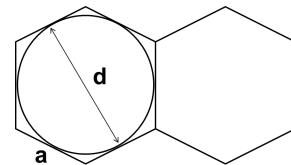
T= thickness, or cell depth L= ribbon direction W= long direction, or direction perpendicular to the ribbon

d (mm)	3.2	4.0	4.8	6.4	8.0	9.5
d (inch)	1/8	5/32	3/16	1/4	5/16	3/8
a (mm)	1.83	2.29	2.75	3.67	4.5	5.5

Notes: d:diameter of inscribed circle

a:length of a hexagonal side

$$d = \sqrt{3} a$$



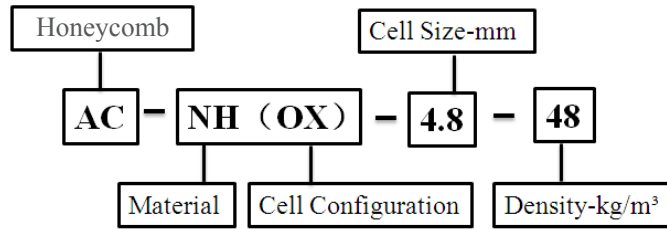
TOLERANCES:

Length: ≥ 0 mm Width: ≥ -5 mm

Density: $\pm 10\%$ Cell size: $\pm 5\%$

Thickness: 2~50mm ± 0.2 mm
 50.01~100mm ± 0.5 mm
 >100.01mm ± 3 mm

AC-NH aramid paper honeycomb is specified as follows:



AC-NH Mechanical Properties					
Designation Material-Cell Size-Density NH mm kg/m ³	Compression(MPa)	Plate Shear(MPa)			
	Bare	"L" Direction		"W" Direction	
	Strength	Strength	Modulus	Strength	Modulus
	Typ.	Typ.	Typ.	Typ.	Typ.
AC-NH-3.2-29	0.58	0.62	30	0.37	20
AC-NH-3.2-32	0.64	0.68	36	0.41	20
AC-NH-3.2-40	1.29	0.86	40	0.50	22
AC-NH-3.2-48	1.93	1.10	54	0.70	28
AC-NH-3.2-56	2.23	1.22	68	0.79	41
AC-NH-3.2-64	3.45	1.65	72	0.97	48
AC-NH-3.2-72	4.26	2.18	78	1.26	51
AC-NH-3.2-80	4.95	2.41	87	1.43	58
AC-NH-3.2-96	7.17	2.62	101	1.61	66
AC-NH-3.2-128	11.82	3.15	122	2.01	90
AC-NH-3.2-144	14.96	3.35	133	2.04	102
AC-NH-4.8-32	1.07	0.62	24	0.37	16
AC-NH-4.8-40	1.80	1.03	35	0.66	24
AC-NH-4.8-48	1.95	1.32	58	0.75	26
AC-NH-4.8-56	2.45	1.44	68	0.85	45
AC-NH-4.8-64	3.48	1.65	70	0.91	50
AC-NH-6.4-32	0.86	0.97	24	0.57	18
AC-NH-6.4-40	1.65	1.08	42	0.64	24
AC-NH-6.4-48	2.35	1.18	50	0.69	28
AC-NH-9.5-32	0.93	0.78	32	0.41	20
AC-NH-9.5-40	1.75	0.91	40	0.53	24
AC-NH-9.5-48	1.96	1.09	52	0.68	27
AC-NH(OX)-4.8-29	0.55	0.29	30	0.33	24
AC-NH(OX)-4.8-40	1.76	0.80	41	0.77	40
AC-NH(OX)-4.8-48	1.85	0.96	48	0.92	45

This table presents guarantee values of AC honeycomb obtained from testing specimens of 12.7mm thickness at RT. All data are representative at the nominal product density. Data is based on results gained from experience and tests and is believed to be accurate yet without acceptance of liability for loss or damage incurred and attributable to reliance thereon as conditions of use lie outside our control.