

AC-NH-A Aramid Paper Honeycomb Aerospace Grade

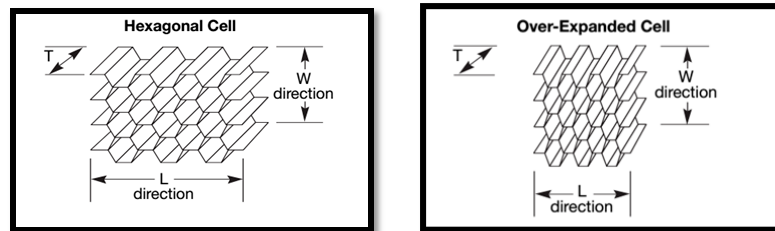
DESCRIPTION & FEATURES:

AC-NH-A: Meta-aramid paper honeycomb is manufactured with meta-aramid aerospace grade paper and coated with phenolic resin. It is light but with high strength. At the mean time, it is flame-resistant, corrosion-resistant, electrical insulating, and can meet FST requirements.

APPLICATIONS:

AC-NH-A is widely used in aeronautics and astronautics.

DIMENSIONAL NOMENCLATURE:



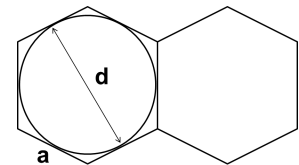
T= thickness, or cell depth L= ribbon direction W= long direction, or direction perpendicular to the ribbon

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

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



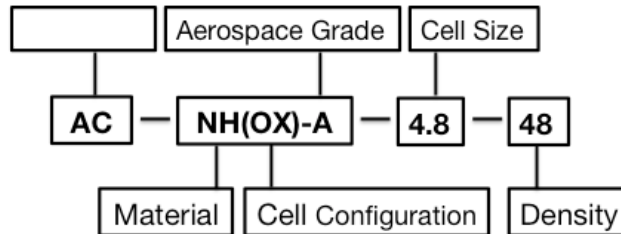
Tolerances:

Length: >0mm Width: >-5mm

Density: ±10% Cell size: ±5%

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

AC-NH-A aramid paper honeycomb is specified as follows:



AC-NH-A Mechanical Properties					
Aramidcore Honeycomb 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-A-3.2-29	0.69	0.62	31	0.37	21
AC-NH-A-3.2-48	2.05	1.36	58	0.75	32
AC-NH-A-3.2-64	3.80	1.84	76	1.01	50
AC-NH-A-3.2-80	5.26	2.62	92	1.48	61
AC-NH-A-3.2-96	7.31	2.76	106	1.71	70
AC-NH-A-3.2-128	12.30	3.25	126	2.11	92
AC-NH-A-3.2-144	15.04	3.52	138	2.35	106
AC-NH-A-4.8-32	1.12	0.69	31	0.40	19
AC-NH-A-4.8-48	2.35	1.38	59	0.75	28
AC-NH-A-4.8-64	3.97	1.81	72	1.10	52
AC-NH(OX)-A-4.8-29	0.68	0.35	31	0.38	25
AC-NH(OX)-A-4.8-48	2.36	0.82	36	0.92	46

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.

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