

AT-NH Aramid Paper Honeycomb Commercial Grade

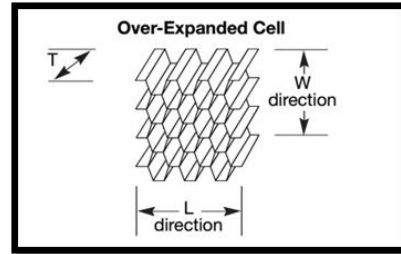
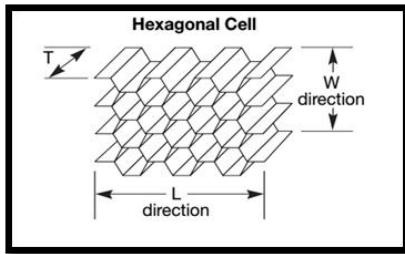
DESCRIPTION & FEATURES:

AT-NH meta-aramid paper honeycomb is manufactured from commercial grade meta-aramid paper and coated with phenolic resin. It has many outstanding features such as light against high strength, flame-retardant, corrosion-resistant, low dielectric and anti-fatigue.

APPLICATIONS:

AT-NH meta-aramid paper honeycomb is widely applied in transportation interiors, racing boats, antenna covers, military shelters, and sports etc..

DIMENSIONAL NOMENCLATURE:

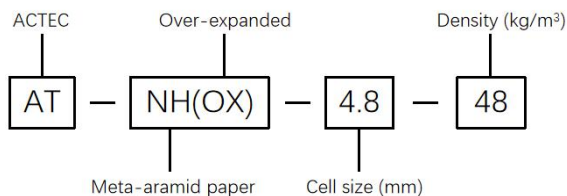


T= thickness, or cell depth L= ribbon direction
W= long direction, or direction perpendicular to the ribbon

TOLERANCES:

Length: >-10mm Width: >-10mm
Density: $\pm 10\%$ Cell size: $\pm 5\%$
Thickness: 2-50mm $\pm 0.2\text{mm}$
 50.01-100mm $\pm 0.5\text{mm}$
 >100.01mm $\pm 3\text{mm}$

AT-NH TYPE DESIGNATION:



Mechanical Properties of AT-NH in Room Temperature

| AT-NH Mechanical Properties | | | | | |
|--|-----------------|-----------------|----------------|-----------------|----------------|
| Designation Material-Cell -Density NH mm kg/m ³ | Compression | Plate Shear | | | |
| | Bare | L Direction | | W Direction | |
| | Strength MPa | Strength MPa | Modulus MPa | Strength MPa | Modulus MPa |
| | Typ | Typ | Typ | Typ | Typ |
| AT-NH-3.2-29 | 0.55 | 0.46 | 14 | 0.31 | 11 |
| AT-NH-3.2-32 | 0.64 | 0.52 | 17 | 0.38 | 14 |
| AT-NH-3.2-40 | 1.29 | 0.86 | 36 | 0.50 | 18 |
| AT-NH-3.2-48 | 1.93 | 1.10 | 41 | 0.62 | 22 |
| AT-NH-3.2-56 | 2.23 | 1.46 | 47 | 0.88 | 28 |
| AT-NH-3.2-64 | 3.40 | 1.65 | 56 | 0.97 | 33 |
| AT-NH-3.2-72 | 4.26 | 1.79 | 61 | 1.02 | 34 |
| AT-NH-3.2-80 | 4.95 | 1.98 | 68 | 1.08 | 36 |
| AT-NH-3.2-96 | 6.82 | 2.62 | 79 | 1.44 | 45 |
| AT-NH-3.2-128 | 11.82 | 3.15 | 105 | 1.83 | 61 |
| AT-NH-3.2-144 | 13.55 | 3.08 | 114 | 1.98 | 70 |
| AT-NH-4.8-32 | 0.82 | 0.62 | 24 | 0.37 | 16 |
| AT-NH-4.8-40 | 1.46 | 1.03 | 35 | 0.43 | 21 |
| AT-NH-4.8-48 | 1.98 | 1.08 | 38 | 0.58 | 26 |
| AT-NH-4.8-56 | 2.45 | 1.44 | 45 | 0.64 | 29 |
| AT-NH-4.8-64 | 3.48 | 1.65 | 52 | 0.91 | 32 |
| AT-NH-4.8-80 | 5.37 | 1.98 | 67 | 1.29 | 38 |
| AT-NH-6.4-40 | 1.65 | 1.08 | 31 | 0.53 | 20 |
| AT-NH-6.4-48 | 1.88 | 1.18 | 38 | 0.69 | 22 |
| AT-NH-9.5-32 | 0.68 | 0.58 | 17 | 0.30 | 12 |
| AT-NH-9.5-48 | 1.45 | 1.09 | 31 | 0.51 | 20 |
| AT-NH(OX)-4.8-32 | 0.55 | 0.29 | 11 | 0.33 | 15 |
| AT-NH(OX)-4.8-40 | 1.45 | 0.52 | 15 | 0.62 | 32 |
| AT-NH(OX)-4.8-48 | 1.95 | 0.73 | 19 | 0.76 | 36 |

Remarks:

1. Above table presents guarantee values of honeycomb obtained from testing specimens of 12.7mm thickness at room temperature, and are representative at the nominal product density.
2. Data is based on results gained from experience and tests.

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