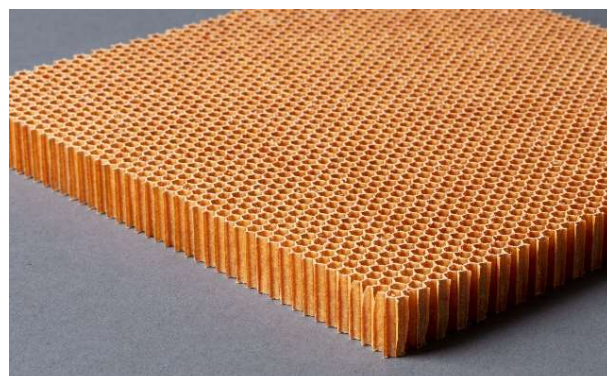


SAH III®

SAH III® is produced with Meta-aramid fiber sheets as economy model. These sheets are bonded by a thermosetting adhesive at the nodes. After expanded to the hexagonal cell or over-expanded cell configuration, it is dipped in a heat resistant phenolic resin and cured in an oven. SAH III® is available at the required core thickness since the cutting to thickness is done according to customer's request.



- Small cell size at low densities
- Damage resistant under normal shop use
- Fire resistant (self-extinguishing)
- Water resistant
- Excellent dielectric properties
- Good thermal and electrical insulator

- Sports and leisure goods
- Racing car components
- Train car panels

Example

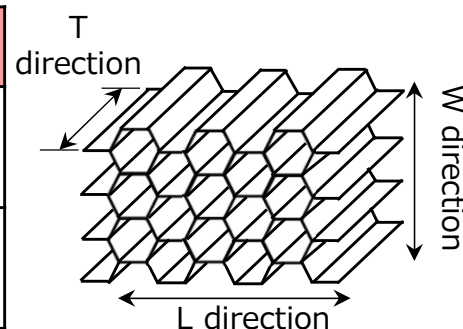
Density (lbs./ft³)

Cell Size (inch)

Showa Aramid Honeycomb

Dimensional Nomenclature

Cell Shape	L direction	W direction	T direction
Hexagonal Cell	48 ±2 inch (1200 ±50 mm)	96 ±6 inch (2400 ±150 mm)	0.12 ~ 32.0 inch (3.00 ~ 812 mm)
OX Cell	38 ±2 inch (960 ±50 mm)	96 ±6 inch (2400 ±150 mm)	0.12 ~ 20.0 inch (3.00 ~ 500 mm)



0.12~2.00 inch (3.00~50.00 mm) : ±0.006 inch (±0.15 mm)
2.01~4.00 inch (50.01~100.00 mm) : ±0.01 inch (±0.25 mm)
4.01 inch (101.854mm) 以上 : ±0.12 inch (±3.00 mm)

NOTE: For more information, please contact our Sales Office

Mechanical Properties

Designation	Compressive		Plate Shear			
	Strength		L Direction		W Direction	
	Bare (MPa)	Stabilized (MPa)	Strength (MPa)	Modulus (MPa)	Strength (MPa)	Modulus (MPa)
SAH III-1/8-3.0	2.42	2.50	1.28	46.8	0.73	30.3
SAH III-1/8-5.0	6.65	6.94	2.65	82.7	1.51	52.4
SAH III-3/16-OX-3.0	2.86	3.08	0.78	23.2	0.88	46.3

NOTE:

- Bare Compression is a compression test of honeycomb core.
- Stabilized Compression is a compression test of a honeycomb panel.
- The above data are the properties when tested per SAE-AMS-STD-401 at room temperature using 0.500 inch core thickness.
- The typical values represent the mean average of relatively large number of test values from many blocks of honeycomb, and are not guaranteed.
- Tolerance of the density is $\pm 10\%$ of nominal density.
- "OX" is an over-expanded hexagonal cell in the W direction, providing a rectangular cell shapes that facilitates curving or form in the L direction.

SAH III® is Registered Trademark of Showa Aircraft Industry.

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