



## Stainless Steel Honeycomb Core

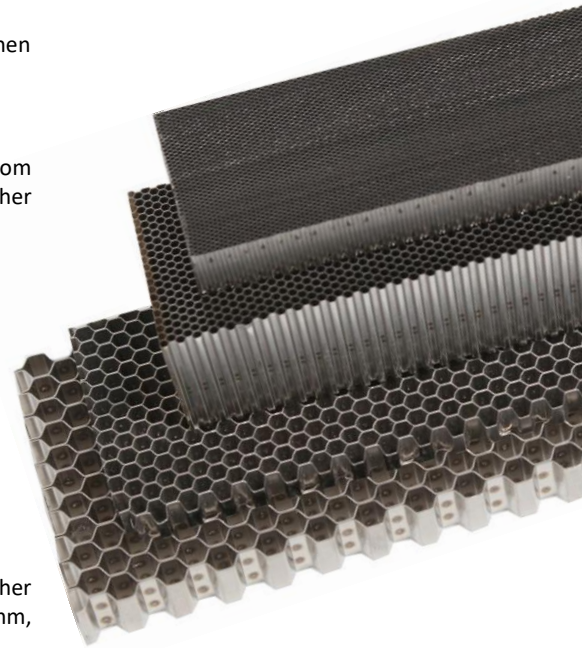
Stainless steel honeycomb is spot welded which offers better performance and stability when compared against adhesively-bonded stainless cores.

Honeycomb cores of various dimensions and functionalities are available in cell sizes ranging from 0.8mm to 42mm in diverse shapes such as camber, ring, tape, machined honeycomb and other complex patterns.

Honeycomb has the following typical applications:

- Air, water and gas flow straighteners and filters
- EMI/RF Shielding
- Tables for water jets & laser cutting machines
- Structural Honeycomb for Aircraft, thrust reversers, exhaust nozzles,
- Aircraft Engine Honeycomb Seals
- Power Generation Turbine Seals

The materials we use in manufacturing include copper, titanium alloys, stainless steel and other high temperature alloys (e.g. Haynes, Hastelloy-X and Inconel). Other foil thicknesses 0.10mm, 0.13mm and 0.15mm are also available on request.



NOTE: The maximum sheet size depends on the cell size and the honeycomb thickness.

Honeycomb core's Properties										
Cell Size (mm)	0.8	1.6	3.2	4.8	5.6	6.4	10.0	12.7	16.0	25.0
Minimum Thickness (mm)	3	3	5	5	5	5	50	50	50	50
Maximum Thickness (mm)	25	30	60	60	90	100	150	150	450	450
Foil Thickness (mm)	0.05	0.076	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Density (kg/m3) **	1164	909	1164	806	699	616	403	320	256	165
% Open Area **	85.2	88.4	85.2	89.7	91.1	92.2	94.9	95.9	96.7	97.9
Materials	Stainless Steel (SS-304, SS-316, SS-316L)									
Standard Node Welding	Spot									
Shapes	Rings / Segments / Contours / Steps / Chamfers									

\*\* Values of Density and % Open Area is based on typical foil thickness.