

Hexcel® HexWeb® CR III 1/8-5052-.003 Corrosion Resistant Specification Grade Aluminum Honeycomb

Category : Metal , Metal Foam, Mesh, or Honeycomb , Nonferrous Metal , Aluminum Alloy , 5000 Series Aluminum Alloy

Material Notes:

Grade is designated as "Cell Size-Alloy-Foil Gauge."5052 and 5056 expanded aerospace grade aluminum honeycomb materials are available in a wide selection of cell sizes and foil gauges. The HexWeb® CR III coating has been developed to offer superior protection for aluminum honeycomb exposed to corrosive environments. The HexWeb® CR III system offers a clear protective film that interacts with the aluminum surface forming a stable, tightly adherent bond. The coating is primarily in an organo-metallic polymer type that differs from the normal conversion-type corrosion protective coatings.Hexcel expanded honeycomb is manufactured by bonding together sheets of aluminum foil, then expanding to form a cellular honeycomb configuration. Resulting panels have sharp, clean cell walls, are essentially burr-free, and are suitable for high-quality core-to-facing bond.Aluminum HexWeb® CR III Specification Grade honeycomb materials are predominantly used in sandwich structures to meet design requirements for highly engineered structural components. As a structural core material it finds applications in all types of aerospace vehicles and supporting equipment where sandwich structure offers rigid panels of minimum weight, aerodynamic smooth surfaces, and high fatigue resistance. The same structural properties are also used for commercial applications such as tools, snow and water skis, bulkheads, and floors. Other nonstructural uses are direction air/fluid flow control, RF shielding, and energy absorption.

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http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CR-III-18-5052-003-Corrosion-Resistant-Specification-Grade-Aluminum-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.192 g/cc	0.00694 lb/in ³	Nominal

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 14.5 MPa	>= 2100 psi	Bare, min
	>= 15.2 MPa	>= 2200 psi	Stabilized, min
	18.6 MPa	2700 psi	Bare, typ
	20.0 MPa	2900 psi	Stabilized, typ
Compressive Modulus	6.21 GPa	900 ksi	Stabilized, typ
Shear Strength	>= 6.89 MPa	>= 1000 psi	Plate Shear (Beam shear for 12.0 pcf products), W Direction, min
	>= 8.62 MPa	>= 1250 psi	Plate Shear (Beam shear for 12.0 pcf products), L Direction, min
	9.86 MPa	1430 psi	Plate Shear (Beam shear for 12.0 pcf products), W Direction, typ
	13.4 MPa	1940 psi	Plate Shear (Beam shear for 12.0 pcf products), L Direction, typ

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