

CFOAM HTC

METRIC

Property	Test Method	Units	CFOAM HTC
Nominal Density	ISO 12985-2	g/cc	0.4 - 0.6
Compressive Strength	ISO 18515	MPa	1.5 - 1.8
Compressive Modulus	ISO 18512	MPa	100 - 400
Tensile Strength	ISO 12986-2	MPa	0.9 - 1.0
Shear Strength	ISO 12986-2	MPa	1.0 – 4.0
Coefficient of Thermal Expansion	ISO 14420	ppm/°C	2
Thermal Conductivity	ASTM E 1461	W/m-K	106 W/m-K at 0.47 g/cc
Maximum Operational Use Temperature	Environment Dependent	°C	400
Electrical Resistivity	ISO 11713	milliohm-cm	3-4
Pore Volume	Microscopy	%	>70%
Mean Pore Size	Microscopy	Microns	1,200

CFOAM HTC

US

Property	Test Method	Units	CFOAM HTC
Nominal Density	ISO 12985-2	lbs/ft ³	25 - 35
Compressive Strength	ISO 18515	psi	218 - 261
Compressive Modulus	ISO 18512	ksi	14 - 58
Tensile Strength	ISO 12986-2	psi	130 - 145
Shear Strength	ISO 12986-2	psi	145 - 580
Coefficient of Thermal Expansion	ISO 14420	ppm/°F	1.1
Thermal Conductivity	ASTM E 1461	W/m-K	106 W/m-K at 29 lbs/ft ³
Maximum Operational Use Temperature	Environment Dependent	°F	750
Electrical Resistivity	ISO 11713	milliohm-in	1.2 - 1.6
Pore Volume	Microscopy	%	>70%
Mean Pore Size	Microscopy	Inches	0.05