



## Heavy Density HCFC Free Rigid Phenolic Insulation

	STANDARD	UNITS	3.75	5.0	7.5	10
<b>DENSITY*</b>	ASTM D 1622	lb/ft <sup>3</sup>	3.7	5.5	7.5	10
<b>K FACTOR*</b>	ASTM C 518	Btu-in./ft <sup>2</sup> ·°F	0.16	0.21	0.23	0.26
<b>TEMPERATURE LIMIT</b>		°F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F
<b>COMPRESSIVE STRENGTH</b>	ASTM D 1621	psi				
- Parallel to rise*			58	90	150	290
- Perpendicular to rise*			43	70	110	210
<b>TENSILE STRENGTH</b>	ASTM D 1623	psi				
- Parallel to rise*			54	85	130	160
- Perpendicular to rise*			41	65	100	130
<b>CLOSED CELL CONTENT</b>	ASTM D 2856	%	>92	>92	>92	>92
<b>WATER ABSORPTION</b>	ASTM C 209	% by volume	.5%	.5%	.5%	.5%
<b>FIRE TEST CLASSIFICATIONS</b>	Meets the requirements of ASTM E84 25/50 flame and smoke - up to 3 inches thick					

\*all properties can vary by +/- 5%

**OTHER DENSITIES ARE AVAILABLE ON REQUEST PLEASE CONTACT OUR TECHNICAL DEPARTMENT**

Insul-phen meets the requirements of ASTM C1126 Type 11 and 111 grade 1 standard specification for faced or unfaced rigid cellular phenolic thermal insulation.

**Other information**

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(August 2009)

