

ThermCell Technical data sheet

EA98VHP-EA98HP-EA90VHP-EA90HP

Fibre free light weight thermal insulation with 90% or 98% of Al₂O₃.

- Application temperature up to 1700°C/3092°F.
- Excellent thermal shock resistance..
- Fibre free - HSE compliant.
- Light density of 0.50 or 0.70 g/cc.
- High thermal insulation & Energy efficient.
- High purity.
- Chemically stable in most aggressive atmospheres.
- Easily machinable in complex shapes.
- Standard boards sized 450mm x 300mm x thickness 25 – 40 – 50 – 64mm (17.7” x 11.8” x 1” – 1.6” – 2.0” – 2.5”)
- Custom shapes.

Parameter	Test standard	ThermCell EA90VHP	ThermCell EA90HP	ThermCell EA98VHP	ThermCell EA98HP
Classification temperature	ASTM C210-95	1700°C / 3092°F			
Bulk density (g/cc)	DIN EN 1094-4	0.50+/-0.10	0.70+/-0.10	0.50+/-0.10	0.70+/-0.10
CCS – Cold Crushing Strength (MPa =10.2kgf/cm ²)	DIN EN 1094-5	1.5 MPa 217 psi	3.3 MPa 478 psi	2.0 MPa 290 psi	3.4 MPa 493 psi
Thermal conductivity (W/mK)	DIN EN 993-15 (Parallel hot wire method)	800°C / 1472°F 0.37	0.48	0.43	0.54
1000°C / 1832°F		0.39	0.48	0.44	0.56
1200°C / 2192°F		0.41	0.5	0.46	0.58
1400°C / 2552°F		0.43	0.52	0.49	0.59
Chemical analysis (%)	DIN 51001	Al ₂ O ₃ 90		98	
SiO ₂		10		1.9	
Fe ₂ O ₃ , CaO, ZrO ₂ , CR ₂ O ₃ , MgO		<0.05 each		<0.05 each	

Disclaimer : Information has been produced according to recognized test standards and are provided in good faith. They are subject to review whenever necessary and no guarantee or warranty is implied. The purchaser shall determine product suitability for its intended use. Compliance with all local laws and regulations remains the responsibility of the user.

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Examples of Applications :

