

Sunrock HPA-CG Pusher Plate Material

SUNROCK HPA-CG is a high performance alumina and mullite based pusher plate material developed for use in the most demanding industrial sintering applications. SUNROCK HPA-CG is chemically stable in a variety of atmospheres, including hydrogen, and has great thermal shock characteristics due to the high purity mullite bond. There is no clay used in HPA-CG formulation, which, along with the high purity raw materials and extended 1650C soak during initial sintering, provides for essentially no free silica in the ceramic matrix.

SUNROCK HPA-CG DATA SHEET		
Properties		Product
		SUNROCK HPA-CG
Bulk density (g/cc)		2.90
Apparent Porosity (%)		15
Coefficient of Thermal Expansion (X 10 ⁻⁶ / °C)		7.0
Max. Operating temperature (°C)		1775
Modulus of rupture (MPa)	20 °C	13.8
Chemical Composition (%)	SiO ₂	14.90
	Al ₂ O ₃	84.96
	Fe ₂ O ₃	0.01
	other	0.13

These are typical properties only and are not to be used as specifications nor as a warranty of performance.

Other products available:

- HPA: General purpose alumina for pressed kiln furniture
- HPA-95: 95% alumina for pressed kiln furniture
- HPA-99: 99.5% alumina for pressed kiln furniture
- Toll firing (electric and gas kilns)



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