

Diatomite Insulation Products

I. The diatomaceous earth is the main material of Huali CD™ Diatomite Insulating Products, produced after mixing, extrusion forming, drying, roasting and grinding. We have three types: Insulating bricks, Insulating particles, and Insulating powder.。

II. Shaped insulating products—diatomite bricks

Properties \ Products	CD-0.5	CD-0.6	CD-0.7	CD-0.8	CD-1.0
Bulk density g/cm ³	≤0.5	≤0.6	≤0.7	≤0.8	≤1.0
Cold crushing strength kg/cm ²	≥8	≥12	≥20	≥35	≥50
Reheat shrinkage % at 900℃ × 8hrs	0.5	0.5	0.5	0.5	0.5
Thermal conductivity W(M.K)at 300℃ mean	0.11	0.15	0.18	0.20	0.23
Max service temp °C	900	900	900	900	900
Chemical composition %					
SiO ₂	71.5	71.0	70.5	70.0	70.0
Al ₂ O ₃	16.5	17.0	17.5	18.0	18.0
Fe ₂ O ₃	4.0	4.2	4.5	5.0	5.0

Typical size available: MM

Standard	Arch			Wedge			Key		
		T38	T39		T19	T20		T43	T44
Length 230		230	230		230	230		230	230
Width 114		114	114		114	114	a	114	114
Width							b	96	76
Thickness	a	65	65	a	65	65		65	65
Thickness	b	55	45	b	55	45			

III. Unshaped thermal insulating products

Properties \ Products	Grade	Appearance	Bulk density g/cm ³	Max service Temp. °C	Thermal conductivity W/M.K at 300℃ mean	Size MM
CD530	Calcined	Powder	0.38	900	≤0.10	0.05-0.25
CD630	Calcined	graininess	0.50	900	≤0.13	1-10