



Heating Element For Hot Water Heater

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Ceramic Heater element produced by
implementing ceramic lamination processes.
Due to the compactness, high power and
rapid heating speed .Ceramic Heater can
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Mainly applications include use as innovative
types of heaters in the automotive, medical
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Model:G8080TG

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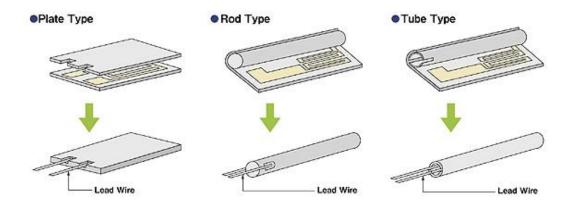
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Process of aluminum Ceramic Heater

First, painting the high melting point metal (tungsten or molybdenum manganese) paste on to the Al2O3 casting briquette in coordinate to the circuit design, then another layer of sintering additives. After that, repeating the process to build multiple layers. Then, they are sintered together under 1600°C hydrogen gas environment. Finally, nickel leads are brazed at 800°C onto the metal end and put on with Teflon sleeve, which make it a MCH heating element.

Heating Element for Hot Water Heater is Internal Heating elements are protected from oxidation due to sintering into one-piece ceramic body structure.



Material Properties of 95% Al2O3 Alumina ceramic

Thermal Properties

Thermal Poperties						
Item	Unit	Alumina Heater				
Max Working Temperature	°C	1050				
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Thermal Conductivity	W/ (m.k)					
Specific Heat	J/(kg.k)	0.78*103				
Expansion	/°C(40~800°C)	0.78*10-6				
Hardness (load 500g)	Gpa	13.5				
Flexural	Мра	320				



Parameter limitation of Ceramic Heating Core

Configuration and Dimension										
Shape	Dimension	Tolerance	0	Tolerance		Tolerance	Resistance Tolerance			
Plate	Length (mm)		Width(mm)		Thickness (mm)					
	10~120	①≤20+/-0.3 ②≥20+/-1	2~60	①≤20+/-0.3 ② ≥20+/-1	0.55~2.0	①≤1+/-0.1 ② ≥1+/-0.15	+/-10%			
	length		Diameter							
Rod	8~121	①≥30mm:+/-0.5 ②30~100mm:+/-1.0 ③≤100mm~:+/-1.5	2.5~8	①≥5mm:+/-0.1 ②5~9mm:+/-0.2 ③≤9mm~:+/-0.3			+/-10%			
Tube	8~121		2.5~20				+/-10%			

Our Advantages

- a. Extensive production experience: We are specialized in ceramic heating production technology more than 10 years.
- b. Complete production facilities: Owning precision centerless grinding machine, Injection machine, fine polishing machine, sintering boiler, circuit printing and test machines, power-on testers, laser and other advanced equipment. Our technicians will do regular scheduled maintenance on these machines to guarantee them work well.
- c. High quality raw material.
- d.Strictly on-line control to assurance quality.