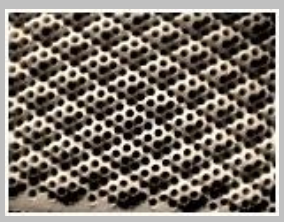
JINTAI Infrared Ceramic Tile

JINTAI has developed four types of surface design for different applications:

- JINTAI Infrared Ceramic Tile Hexagonal Concave Surface : JT®ICT-A
- JINTAI Infrared Ceramic Tile Pyramid Protruding Surface : JT®ICT-B
- JINTAI Infrared Ceramic Tile Flat Surface: JT®ICT-C
- JINTAI Infrared Ceramic Tile Number Eight Surface: JT®ICT-D

Surface Pattern

JT®ICT-A



JT®ICT-B

JT®ICT-C

JT®ICT-D

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Introduction

JINTAI Infrared Ceramic Tile (Also named honeycomb ceramic plate, ceramic plaque or ceramic heating plate) is cordierite based ceramic heating element.

It's widely used in gas radiant heaters and plays the most important part in those applications. The interlaced corrugated surface of the ceramic tile combined with honeycomb design basis provides a superb surface area and working burning surface. We have also adopted the best raw material and new formula to maximize the micro-porosity of the tile. With all these advantages, the oxygen mix completely with the gas, burning without flame, emitting high efficiency far infrared ray and radiant heat, saving up to 40-50% energy cost.

Our ceramic engineer has designed a unique manufacturing machine, which enables us to control the shape and the hole diameter to an enhanced precision level. After test on the real oven, the ceramic tile can generate uniform and high efficiency infra-red burning.

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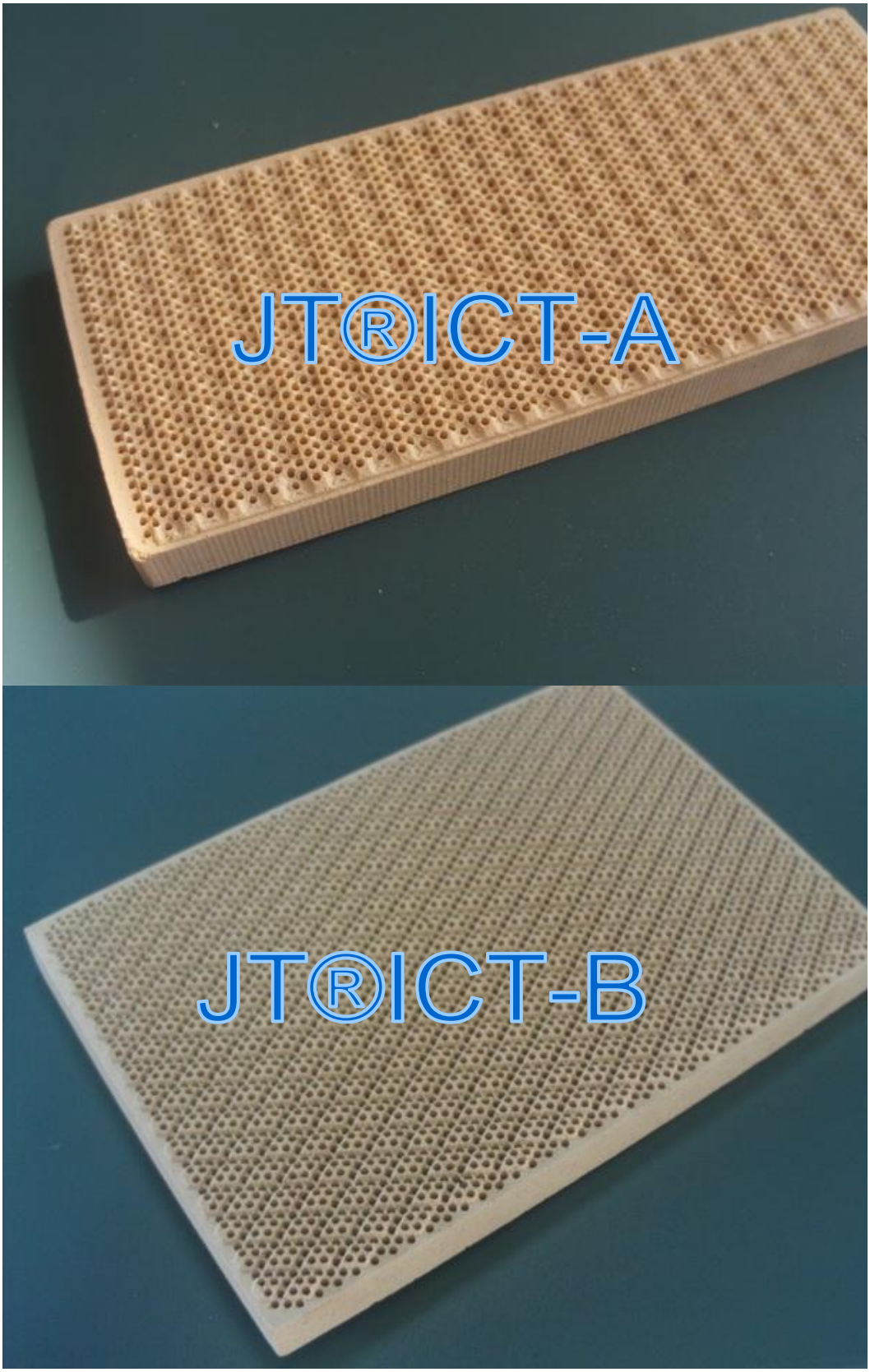

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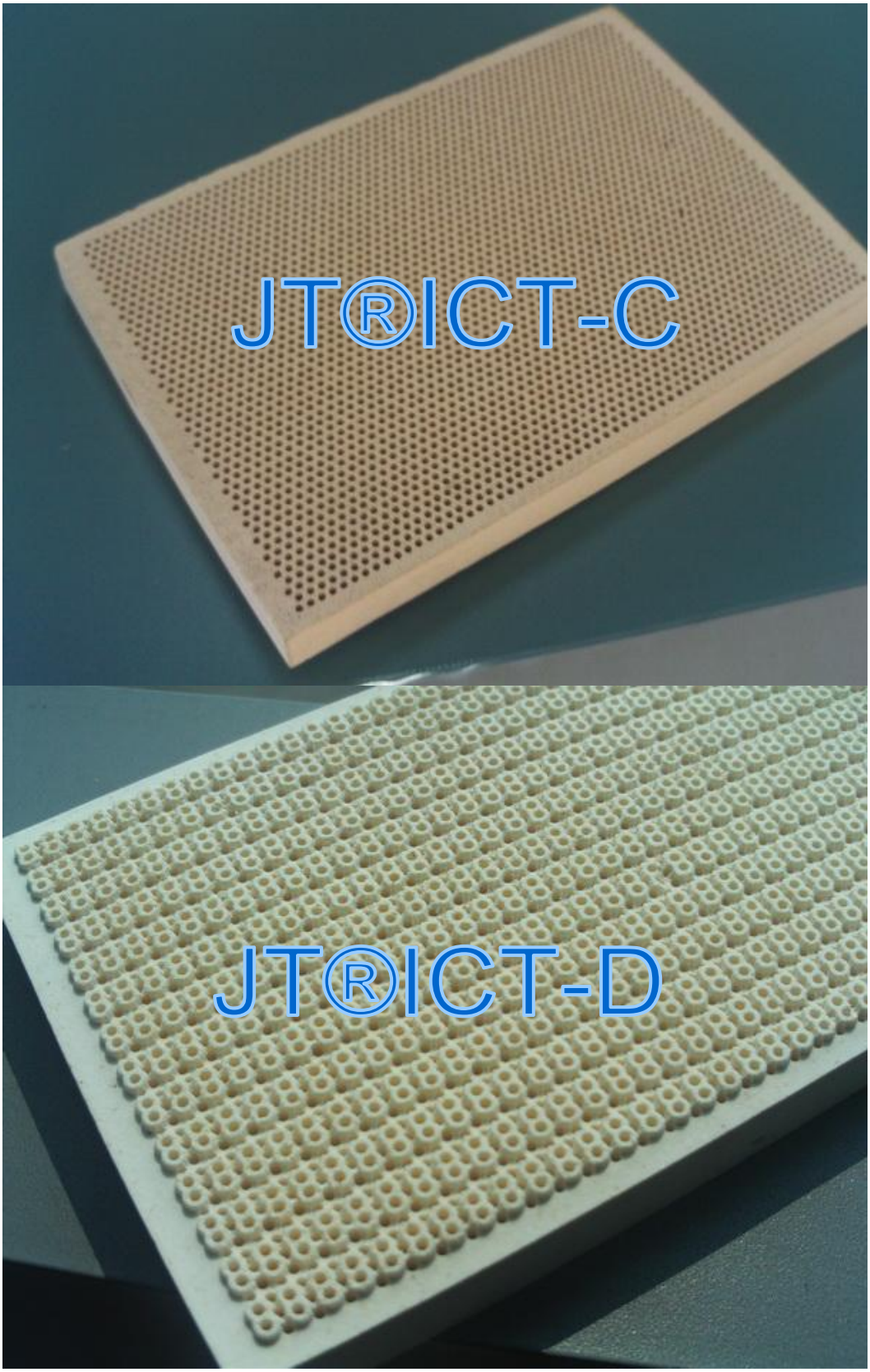

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Application

Barbecues	*Gyro Cookers*
Broilers	*Pizza Ovens*
Convection Ovens	*Pressure Fryers*
Deep Fat Fryers	*Process*
Evaporators	*Ranges*
Gas Ovens	*Rotisserie Ovens*
Griddles	*Space Heaters*
Greenhouse CO_2	*Sear Cookers*

Benefit

- Outstanding Strength
- Uniform radiant burning
- Excellent thermal shock resistance
- Save up to 40~50% energy cost.
- Burn without flame, high burning efficiency, low noise.
- Reduce the harmful gas such as CO, NOx, etc more than 90%

Specification

Sample Dimension				
Square(mm)	Round Shape Diameter (mm)	Thickness (mm)	Hole diameter (mm)	Holes Interval (mm)
<180×180	50--200	8--15	1.2—1.8	1.649—2.086
Physical Properties				
Porosity	Density	Coefficient of Thermal Expansion 0--800℃	Modulus of Rupture Results	Thermal Shock 800℃ into the cold water
50%-60%	≦1.2g/m3	3.5×10-6	≥300lbs/in^2	More than 3 times Does not blast open
Performance				
Harmful Gas Release During Use				
Co	≤0.006%			
NOx	≤5ppm			

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