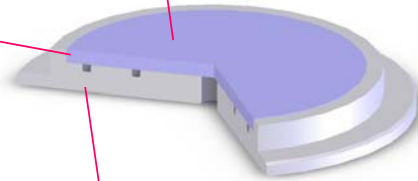
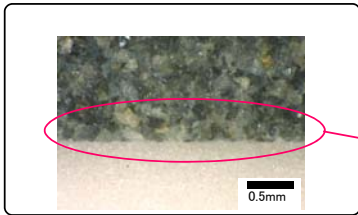


Porous Chuck

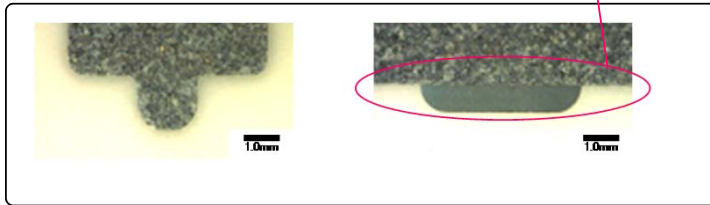
◎Monolithic structure of porous and retainer
NTK Ceratec developed unique technique manufacturing monolithic structure of porous ceramic and retaining body. This enables ultimate

◎Various available option
The following material, pore size and porosity are available.

- Material : Al₂O₃, SiC
- Pore size: 5 , 10 , 30 , 70μm
- Porosity: 30 ~ 60%



◎Design flexible
Both square and circle design are available.
Any inside tunnel pattern is available.



Bonding strength between porous ceramics and retaining body is more than mechanical strength of porous ceramics.

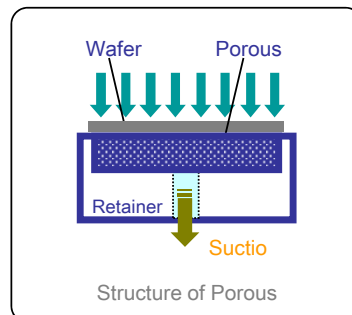
【Characteristics】

Material	Al ₂ O ₃		SiC	
	Porous	Retainer	Porous	Retainer
Specific gravity	2.5	3.9	2.1	3.1
Bending Strength (MPa)	50	450	50	500
Young's modulus (GPa)	55	390	55	410
CTE (/°C)	7.4 × 10 ⁻⁶	7.3 × 10 ⁻⁶	4.7 × 10 ⁻⁶	4.6 × 10 ⁻⁶
Thermal Conductivity (W / m · K)	—	30	—	150
Volume Resistivity (Ω · cm)	10 ¹¹	> 10 ¹⁴	10 ⁶	10 ⁶

【Application】

- Fixture of grinding Si Wafer
(Dicing saw, Grinder, Polisher)
- Glass substrate carrier for LCD
- Fixture for various test equipment
- Fixing film sheet or metal substrate

【Example】



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This product specification and the catalog value are the references, and we may change of it without notice.

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