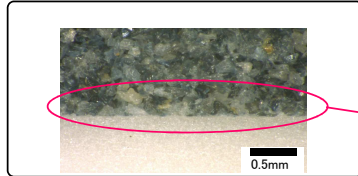


Challenge the next generation with ceramics!

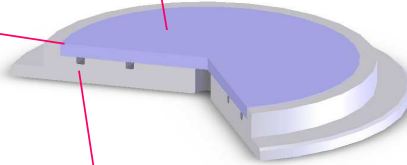
Porous Chuck

©Monolithic structure of porous and NTK Ceratec developed unique technique manufacturing monolithic structure of porous ceramic and retaining body. This enables ultimate flat surface.

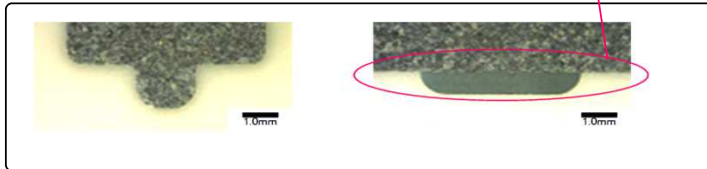


©Various available option
The following material, pore size and porosity are available.

- Material Al_2O_3 , SiC
- Pore size 5, 10, 30, 70 μm
- 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.

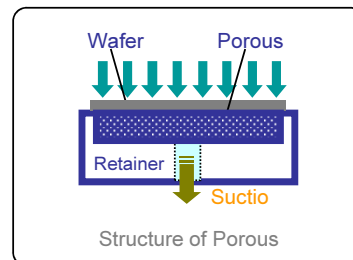
【Characteristics】

Material	Al ₂ O ₃		SiC	
	Porous	Retainer	Porous	Retainer
Specific gravity	2.5	3.9	2.1	3.1
Bending Strength (MPa)	50	410	50	500
Young's modulus (GPa)	55	380	55	410
CTE (°C)	7.4×10^{-6}	7.6×10^{-6}	4.7×10^{-6}	4.6×10^{-6}
Thermal Conductivity (W/m · K)	—	30	—	150
Volume Resistivity ($\Omega \cdot cm$)	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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