

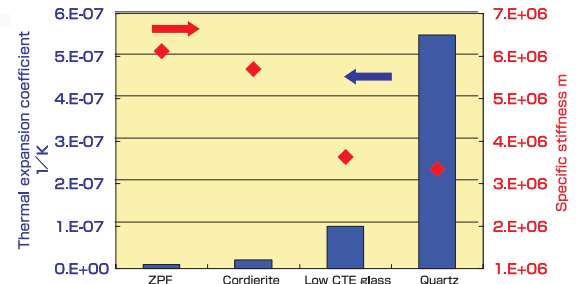
## Zero thermal expansion type ESC

### Special Feature

- . Super Flatness (<100nm at 8inch)
- . Pore less
- . High modulus
  - Young's Modulus 150GPa
  - Specific gravity 2.5
- . Nonmagnetic

### Application

- . For next generation Lithography.
- . For EB inspection machine



Coefficient of thermal expansion comparison

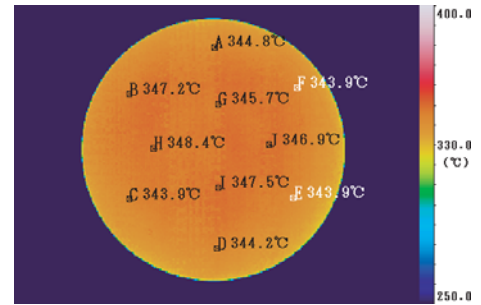
## Built in Heater type AlN ESC

### Special Feature

- . Chucking force; Johnsen-Rahbek
- . For 8"/12" wafer size
- . Electrode; Mono-polar/Bi-polar
- . Advanced Wafer temp uniformity

材料系	使用温度					
	室温	100	200	300	400	500
AN-S Type			■			
AN-T Type				■		
AN-N Type					■	

Temperature range



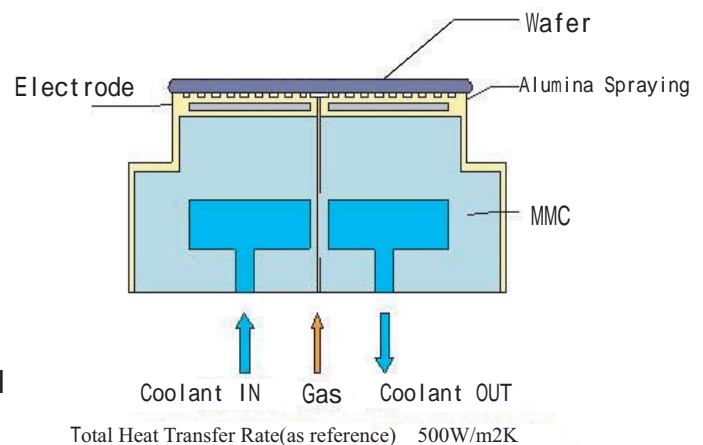
Temperature distribution

## Spray coat type ESC

Intensive and unchangeable feature of the insulating layer is possible by using the original Alumina Spray Technology on ESC. The selectivity application of Al and MMC materials for substrate is possible wide.

### Special Feature

- . Low impedance
- . High-efficiency cooling module
- . Possible for huge size by MMC material
- Reliability ESC is given by thermal expansion matching between coating layer and MMC



Cross section model of spray coat type ESC

### Business headquarters

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