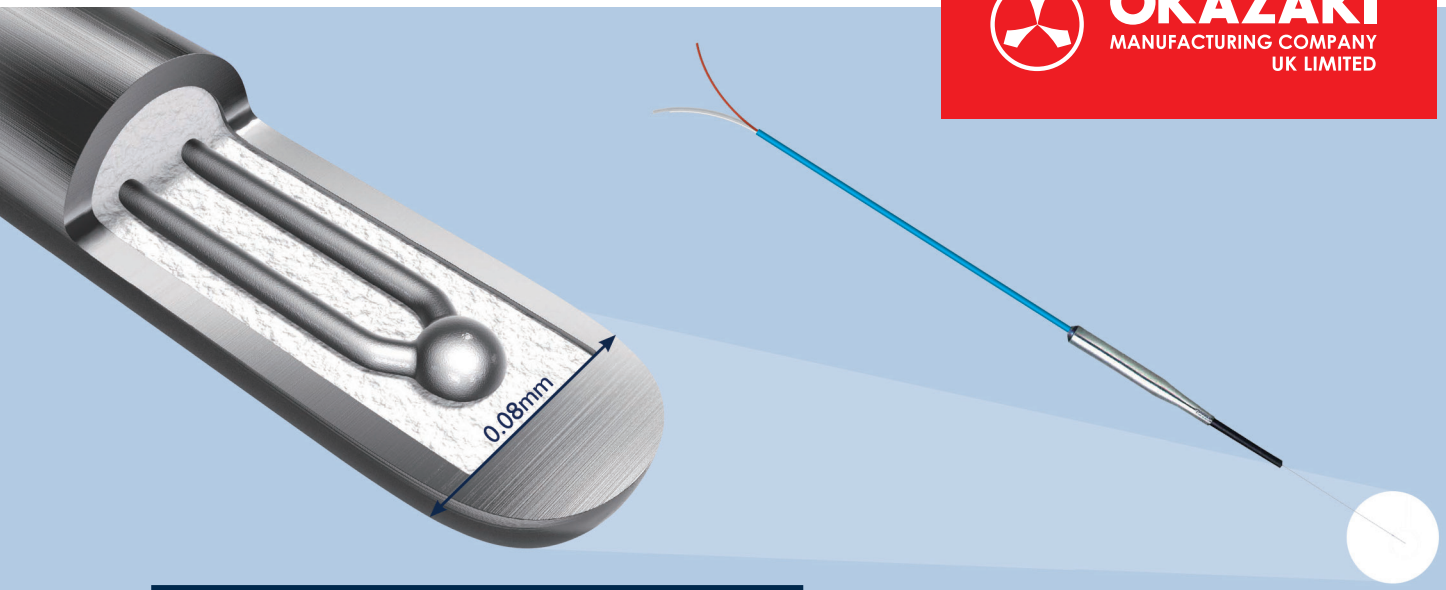
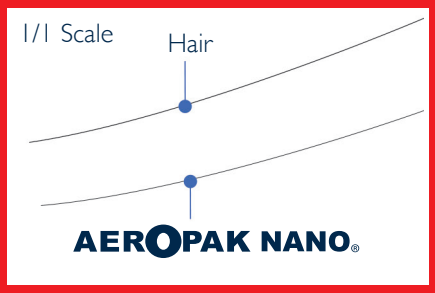
Okazaki Manufacturing Company UK Limited
Millgrove House, Parc Ty Glas, Llanishen, Cardiff, CF14 5DU
Office: +44 (0)29 2081 4333 *Email:* sales@okazaki-mfg.co.uk

OKAZAKI
MANUFACTURING COMPANY
UK LIMITED



Ultra-Fine Sheathed Thermocouple

World's Smallest ϕ0.08mm



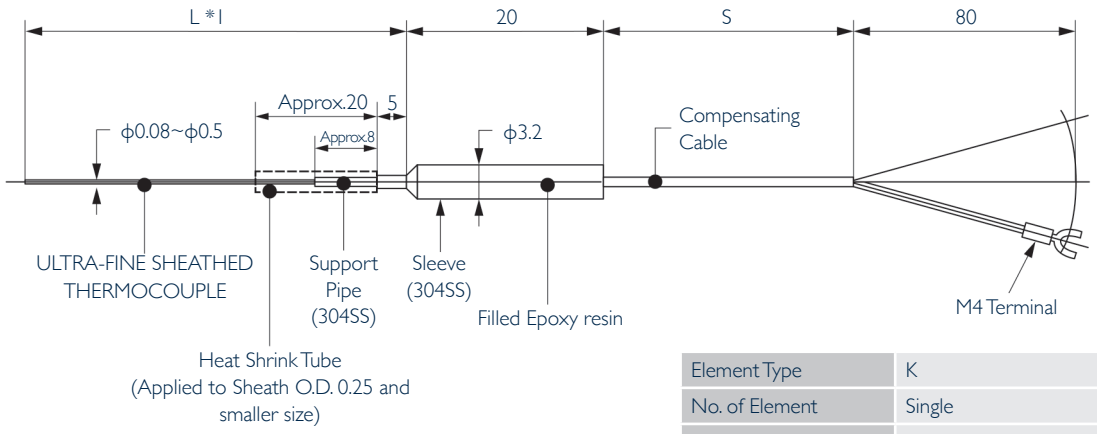
OKAZAKI AEROPAK NANO®*1, Ultra-fine sheathed thermocouple is our smallest diameter thermocouple. The outer sheath diameter is 0.08mm and has a response time of less than 1ms.

AEROPAK NANO® provides solutions by free style bending, quick response and accurate measurement. also offers temperature measurement of small objects and narrow spaces.

AEROPAK NANO®*1 is our registered trademark

www.okazaki-mfg.co.uk

Specifications



Element Type	K
No. of Element	Single
Hot Junction	U(#9)Ungrounded
Sheath Material	NCF600(equivalent Inconel 600)
Class	2(JIS C1605-'96)
Compensating Cable	EXD-SS(Standard) EXS-2(Heat Resistant) EXS-3(Heat Resistant) T32

Note:

- Care shall be taken to insertion length because O.D. of Heat Shrink Tube and Support Pipe are bigger than sheath O.D.
- EXS-2 will be used as the compensating cable for products with sheath outer diameters of ϕ0.15 or less.

Electrical & Physical Features

	Sheath O.D. (mm)	ϕ0.08	ϕ0.1	ϕ0.15	ϕ0.25	ϕ0.5
Electrical	Resistance Value	1MΩ/3VDC			5MΩ/25VDC	
Physical	Response (63.2%)*4	1ms	Approx.1ms	2ms	4ms	16ms
Others	Sheath Maximum Length (mm)	300*2	300*2	500*2	Free	
	Operating Temperature Range (°C)*3	400	400	400	500	600
Standard Calibration Test (°C)		100			300	

*1 A tolerance is provided for the L dimension. For ϕ0.08 to ϕ0.15, the tolerance is +40/-10. For ϕ0.25 to ϕ0.5, the tolerance is +10/-5. For products where L = 150 or more, the tolerance is as written above or ±1.5% (whichever is larger).

*2 Long sheaths are not recommended due to potential error by high loop resistance value.

*3 Temperature measurement up to 1000°C can be sustained for a short period of time.

*4 Ambient Temp to Boiling water 100°C

- **From Internal testing and calculations, response times shown above cannot be guaranteed.**
  (The tip shall slightly be bigger than the sheath diameter as standard specification, same diameter finish of the tip is available upon request. Please contact us in advance.)

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