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OKAZAKI
MANUFACTURING COMPANY
UK LIMITED

AEROPAK®

HOSKINS2300®

The next generation in high temperature sensors

Capable of accurately measuring temperature in environments of up to 1260°C.

A sheathed thermocouple that can be used in a high-temperature environment exceeding 1000°C, which otherwise could only be achieved with an expensive base metal thermocouple.

Degradation is reduced even in an environment of 1250°C by a sheath incorporating a special alloy

No oxidization occurs even at 1000°C during a 2000hr test which proves long life durability.

Description

- Capable of operating in and measuring temperatures of up to 1,260°C.
- Suitable temperature measurement applications include:
 - Turbine blade path
 - Turbine exhaust gas
- Suitable for the following atmospheres - oxidising, reducing, neutral and vacuum.

Specifications

Sheath O.D. (mm)		Ø1.0	Ø1.6	Ø3.2	Ø4.8	Ø6.4	Ø8.0
Max Temp (°C)	HOSKINS2300®	1000	1100	1200	1260	1260	1260
	Inconel600	650	650	750	900	1000	1050
Element		K (Single)		K, N (Single, Double)			
Tolerance		IEC/JIS ASTM E230 SP, STD					

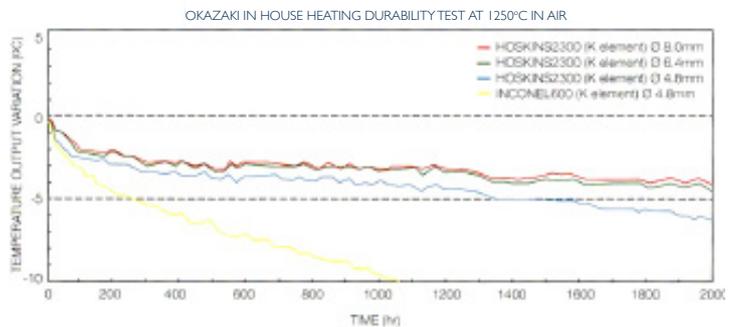
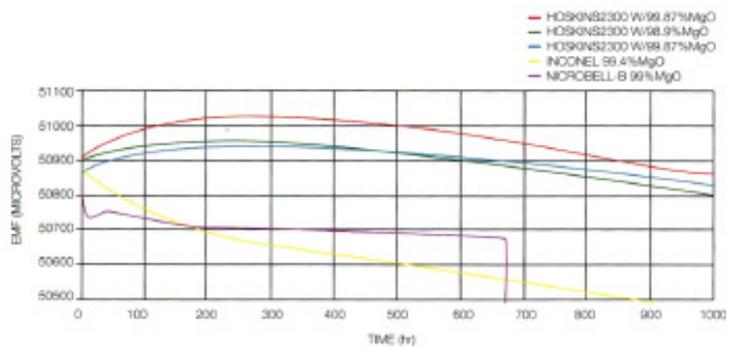
Durability

Since a special alloy is adopted for the metal sheathing material, a strong oxide film is formed on the metal surface at high temperature.

This will evolve into a self-defensive alloy. As a result, it reduces high temperature oxidation and deterioration of the sheath itself, further prevents penetration of external attack materials, saves degradation of the element itself, and obtains stable output.

Test Results

The National Institute of Standards and Technology (NIST) tested several 1/8th inch diameter samples of HOSKINS2300® thermocouples against competitive materials with sheaths of Inconel and Nicrobell



This high temperature sheathed thermocouple changes to self-defensive type alloy sheath at high temperature use. If it bends after use, there is a risk of breakage of oxide and breakage of the sheath. Also, in case of bending before use, avoid bending at the same part more than 10 times the outer diameter of the sheath.