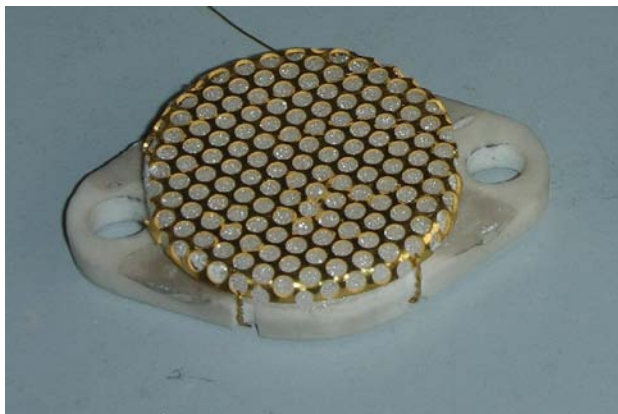




HTSH-1200

HIGH TEMPERATURE SAMPLE HOLDER



A cell ready to enter the oven and a special grid , laser drilled for the utmost precision in conductivity measures

Conductivity, the very basic electrochemical measure on any electronic or ionic conductor, often demands extreme thermal conditions.

The wider the thermal range, the most accurate is the result obtained, showing up phase transitions, changes in the physical-chemical properties or even mechanical variations.

The cell designed and manufactured by Cell Company , is based on more than two decades of professional experience. The materials used are performing over the whole range from -190 C° to $+1200\text{ C}^{\circ}$, in an unrivalled mix of performance and ease-of-use.

Depending upon the heating-cooling system, the cell will span from -190 C° to $+500\text{ C}^{\circ}$, or room to $+1200\text{ C}^{\circ}$. Spring-loaded plates can hold safely even brittle samples, compensating for thermal expansion/shrinking.

An accurate gas-flow path surrounds the sample, avoiding possible dead spots; sample temperature monitoring is standard.

The measuring head has low electrical noise and good behavior at higher frequencies, thanks to the short-length design of wiring, and accurate shielding; wire-compensation connections are keeping the residual resistance low, in case of highly conductive samples.

Contact us, and talk to a specialist to find out more on the advantages that our solutions can deliver to your specific applications.



PHYSICAL FEATURES

Temperature range	0-1200 °C
Sample size	12-26 mm dia, 3 mm thickness max (to be specified when ordered)
Contact plates	Platinum plate , spring loaded
Construction materials	Alumina 99.5 % platinum 99.5 % fused silica tube, viton o-rings and membranes
Gas flow	Stainless steel in/out connections with gas path blowing towards the sample face
Contact pressure	About 2 to 20 N max
Gas compatibility	Any reducing or oxidizing gas compatible with fused silica and alumina
Gas connections	6 mm Swagelock-type double-ferrule connectors
Gas tightness	Viton O-rings
Orientation	Vertical / horizontal

ELECTRICAL FEATURES

Connections	Banana 2 mm
Measuring configuration	2-wire connections +2 wire compensation
Residual resistance	<5 mOhm
Effective wire resistance	<2 Ohm @ 25 °C
Maximum current capability	5 A
Sample temperature	Type K inconel covered thermocouple

DIMENSIONS & OTHERS

Mechanical	260 X 45 mm (L x Dia) cover tube 80 X 70 mm (Dia x h) connection body 4 mm copper tubing (0.1 Lt /min recommended) 1,2 Kg
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Water cooling

Weight

ORDER CODES AND OPTIONS

See lower chart

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