RFDA MF HTVP1600

The HTVP1600 system measures the elastic properties and internal friction (=damping) of samples continuously at high temperatures up to 1600 °C in controllable atmosphere.

Specifications	
Measures	Resonant frequency Internal friction (=damping) Young's modulus Shear modulus Poisson ratio
Internal dimensions of the furnace	Diameter: 190 mm Height: 180 mm
Temperature profile	Room temperature to 1600 °C
Atmosphere	Vacuum (10^{-1} mbar), Air, Inert, Reducing, ...
Number of samples	1
Heating/cooling speed	1 - 5 °C/min
Measurement interval	1 - ∞ sec
Isolation material	Al_2O_3
Heating elements	Kanthal heating elements
Cooling medium	Water
Minimum sample size*	- Rectangular bar or cylindrical rod with a length of ±3 cm - Disc with a diameter of ±4 cm
Maximum sample size	- Rectangular bar or cylindrical rod with a length of ±16 cm - Disc with a diameter of ±16 cm

*smaller is possible for very stiff materials

More info:
www.imce.net/htvp-1600

Measurement examples:
[See annex](#)

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