



RFDA MF HTVP1750C

The HTVP1750C system measures the elastic properties and internal friction (=damping) of samples continuously at high temperatures up to 1750 °C in vacuum or inert atmosphere.

Specifications		
Measures	Resonant frequency Internal friction (=damping)	Young's modulus Shear modulus Poisson ratio
Internal dimensions of the furnace	Diameter: 190 mm Height: 200 mm	
Temperature profile	Room temperature to 1750 °C	
Atmosphere	Inert or Vacuum (10^{-3} mbar)	
Number of samples	1	
Heating/cooling speed	1 - 5 °C/min	
Measurement interval	1 - ∞ sec	
Isolation material	Al ₂ O 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 ±12 cm - Disc with a diameter of ±12 cm	

*smaller is possible for very stiff materials



More info:
www.imce.net/htvp-1750-c

Measurement examples:
[See annex](#)