THEMYS H2



| GENERAL | DTA | DSC | TGA | ТМА |
|--|--|--|---|--|
| Temperature range (°C) | Ambient to 1 750 | Ambient to 1 000 | Ambient to 1750 | Ambient to 1750 |
| Programmable heating rate (°C/min) | 0.01 to 100 | | | |
| Crucibles volumes or maximum sample size | 30 to 300 μl | 80 to 100 μl | 55 to 2 500 μl or Height: 20 Diam: 14mm without crucible | Height : 20 mm Diam : 10 mm |
| Gas flow | 1 carrier gas flow among 3 connected including a specific H2 line + 1 auxiliary gas flow, 2 MFC, safety system including O2 and H2 detectors | | | |
| Vacuum | Forced primary (< 5.10-2 mbar), hydrogen resistant vacuum pump | | | |
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| MEASUREMENTS | DTA | DSC | TGA | ТМА |
| MEASUREMENTS Measuring range | DTA | DSC | TGA +/- 20 mg +/- 200 mg | TMA +/- 2 mm |
| MEASUREMENTS Measuring range Maximum loading capacity | DTA | DSC 35 g | TGA +/- 20 mg +/- 200 mg | TMA +/- 2 mm |
| MEASUREMENTS Measuring range Maximum loading capacity Resolution | DTA 0.4µW | DSC 35 g 1μW | TGA +/- 20 mg +/- 200 mg 0.002 μg 0.02μg | TMA +/- 2 mm 0.2 nm |
| MEASUREMENTS Measuring range Maximum loading capacity Resolution Measurement precision | DTA 0.4µW Enthalpy 1.4% ^{b,c} | DSC 35 g 1µW Enthalpy 0.9% ^b | TGA +/- 20 mg +/- 200 mg 0.002 μg 0.02μg +/-0.06% ^d | TMA +/- 2 mm 0.2 nm +/-0.08 10 ⁻⁶ /°Ce |

 ${}^{a}\mu V$ =microvolts, values in mW depend on the type of rod used; ${}^{b}based$ on metal standard melting; c if calibrated; ${}^{d}based$ on standard material decomposition; ${}^{e}based$ on thermal expansion measurement of sapphire standard.

REIMAGINE MATERIAL CHARACTERIZATION