

SPECIFICATIONS

Induction Dilatometer complete with soft-/hardware and accessories

Data acquisition software for control of the Dilatometer

Dilatometer L78QDT

	Quenching mode	Compression mode
Temperature range:	RT up to 1600°C (-150°C to 1600°C with cryo option)	RT up to 1600°C
Compression force:		22 kN
Compression rate:		0,01 - 100 mm/s
True strain rate:		0,001 - 10 ¹ /s
True Strain:		-0,05 to -1,2 (3mm sample rest length)
Min. breaks between def. steps:		60 ms
Heating rate:	up to 4000K/s (hollow sample, maximum of 1st derivative)	up to 100K/s
Cooling rate:	up to 2500K/s (hollow sample, maximum of 1st derivative)	up to 100K/s

Cooling and heating rates depend on sample geometry (solid, hollow, samples) and material

Sample diameter:	solid 3mm or 4mm OD Hollow 4mm OD 3.5mm ID	solid 5mm
Measuring range of LVDT:	+/- 1.2mm	+/- 5mm
Maximum resolution:	10nm	40 nm
Vacuum:	Down to 10e-5mbar (depending on vacuum pump)	