LINSEIS
pushing boundaries

Linseis Messgeräte GmbH | Vielitzerstr. 43 | D-95100 Selb

Specifications DIL L78 RITA

	DIL L78 RITA Q (Quenching)
Furnace	Induction Furnace
Temperature range	-150 °C up to 1600 °C (more on request)
Temperature measurement	up to 3 thermocouples welded to sample
Price range	$$
Sample geometry	Ø 3 mm hollow: 3.5 mm OD / 3 mm ID 10 mm long
Sample geometry (optional for heat treatment)	10x10x60 mm (others on request)
Heating rate	≤ 4000 K/s*
Cooling rate	≤ 4000 K/s*
Length change measurement	± 1.2 mm
Data sampling (for temperature, length, force)	up to 1 kHz
Length change resolution	5 nm
Data resolution	24-bit
Instrument dimensions	60x60x110 cm (without accessories)
Power supply	16 A, 208-230 V

*Maximum heating/cooling rate, hollow sample

LINSEIS
pushing boundaries
Linseis Messgeräte GmbH | Vielitzerstr. 43 | D-95100 Selb

	DIL L78 RITA Q/D (Quenching + Deformation)
Furnace	Induction Furnace
Temperature range	-150 °C up to 1600 °C (quenching mode) Sample dependent 1750 °C
Price range	$$$
Sample geometry	Ø 3 mm rec. hollow: 3.5 mm OD / 3 mm ID 10 mm long
Sample geometry (optional for heat treatment)	10x10x60 mm (others on request)
Sample geometry compression	Solid samples, diameter 5 mm, 10 mm long
Heating rate	≤ 125 K/s
Cooling rate	≤ 125 K/s
Length change measurement Compression mode	± 5 mm
Length change measurement Quenching mode	± 1.2 mm
Length measurement resolution	5 nm (optional 1 nm)
Compression force	22 kN (max)
Stroke rate	0.005 - 100 mm/s (more on request)
True strain (compression mode)	-0.02 to -1.2
Data sampling (for temperature, length, force)	Up to 1 kHz
Mechanical control modes	Stroke, force, true strain rate

LINSEIS
pushing boundaries

Linseis Messgeräte GmbH | Vielitzerstr. 43 | D-95100 Selb

	DIL L78 RITA Q/D/T (Quenching, Deformation and Tensile)
Furnace	Induction Furnace
Sample geometry quenching	Ø 3 mm rec. hollow: 3.5 mm OD / 3 mm ID 10 mm long
Sample geometry compression	solid samples, diameter 5 mm, 10 mm long
Sample geometry tensile	round, flat sheet
Heating rate	≤ 125 K/s
Cooling rate	≤ 125 K/s
Length change measurement Compression mode	± 5 mm
Length change measurement Quenching mode	± 1.2 mm
Length measurement resolution	5 nm (optional 1 nm)
Compression force	22 kN (max)
Stroke rate (compression and tensile)	0.005 - 100 mm/s (more on request)
True strain (compression mode)	-0.02 to -1.2
Data sampling (for temperature, length, force)	Up to 1 kHz
Mechanical control modes	Stroke, force, true strain rate