

Competence creates Confidence.



Model no. 1598

TENSILE CREEP TESTER

ISO 16770

The tensile creep tester is used to determine the stress crack resistance of samples with a circumferential notch (FNCT - Full Notch Creep Test) under media influence.

State-of-
the-art



State-of-the-art – test flexibly and incredibly precisely

- You can carry out simultaneous tests at different temperatures and using different test media in the medium bath at the 6 test stations. The respective tensile force is pre-selected digitally and is generated incredibly precisely by a linear motor in conjunction with a load cell and transferred to the IPT user interface.
- Every testing station has a separate medium container so that tests can be conducted simultaneously at different temperatures and using different test mediums.
- The testing temperature can be digitally pre-selected from a range of 30°C above room temperature up to 95°C (the range can even range from 20°C when using a chiller). A stirrer is used to circulate the test medium. It ensures even temperature distribution ($\pm 0.1^\circ\text{C}$ throughout entire content), prevents segregation of the test medium, and prevents foaming.
- Test modes Creep, Relaxation and Settling are available. The samples are effortlessly clamped into non-slip clamping jaws and are conveniently suspended in the medium bath and on the traction units. You enter the test parameters using the IPTDataLogging user interface and receive all of the information about the status of the tests there in a clear overview as well.



Standard features

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|--|--|
| • 6 testing stations | • Container depth 600 mm |
| • Several test modes are available:
Creep, Relaxation, Settling | • Testing with pre-load and conditioning is possible |
| • CE conformity | |

Options




- | | |
|---|---|
| • Automatic medium refill | • Container depth 400 mm |
| • Mounting aid | • Notch device for sample preparation |
| • Chiller | • Data input, evaluation and archiving of testing data via IPTDataLogging software (PC) |
| • Available load cells:
200 N, 500 N, 1,000 N, 2,000 N, 3,000 N, 5,000 N | |

**Design of
TENSILE CREEP TESTER**

1598

Number of stations		6 traction units
Temperature range	°C	30 above ambient temperature up to +95
Temperature accuracy	°C	±0.5 in the entire container
Sample dimensions	mm	max. 25 x 15 mm (Width x Thickness) free length between clamping jaws: max. 150 mm
Pre-load		Can be preselected up to the max. force of the load cell max. pre-set time 9,999 s
Accuracy	%	± 0.5 of full scale of load cell plus ± 0.1 per 5 K change in the ambient temperature
max. extension (with sample length 100 mm)		approx. 115 mm with a container depth of 400 mm approx. 200 mm with a container depth of 600 mm
Distance measurement		Length measurement via incremental encoder
Accuracy of distance measurement	mm	± 0.5
Number of test containers		6
Test container capacity		approx. 16 L per container at a fill level of 400 mm approx. 23 L per container at a fill level of 600 mm
Permissible ambient temperature	°C	+15 to +35
Permissible relative humidity	%	max. 70 non-condensing
Noise emission	dB(A)	< 70
Width x Depth x Height	mm	1,690 x 850 x 2,050
Weight	kg	approx. 650 (fully equipped)
Voltage data		230/400 V, 50/60 Hz *Special voltage

Accessories for TENSILE CREEP TESTER

Product	Description	Model no.
	Motorised notch device for sample preparation	1808
	Testing data management software IPTDataLogging®	1780
	Mounting aid	1598-0041