



Full Notch Creep Test (FNCT)

The OCS Full Notch Creep Test (FNCT) is a widely used method of classifying polyethylene materials in terms of their slow crack growth behaviour under accelerated conditions. A circumferentially notched body is loaded in a tempered wetting agent with a defined tensile stress, and the time until a break occurs is measured.

Testable Raw Materials

• Polyethylene materials

Features

- 15 sample stations with independent tensile stress adjustment and data acquisition
- Load application through easily adjustable lever weight system
- Precise adjustment of tensile stress through electronic force sensor
- Uniform bath temperature control through extensive bath insulation
- Exhaust air connections for targeted vapour extraction
- Continuous pH value measurement with adjustable warning and alarm thresholds
- No time limit on test times, time resolution: 1 second (real time)
- Operation via touch panel with data trend as well as optical and acoustic alarm functions
- High chemical resistance of the material used (stainless steel)
- Developed according to ISO 16770

Sales Team



T +49 2302 95622-0 F +49 2302 95622-33 info@ocsgmbh.com www.ocsgmbh.com

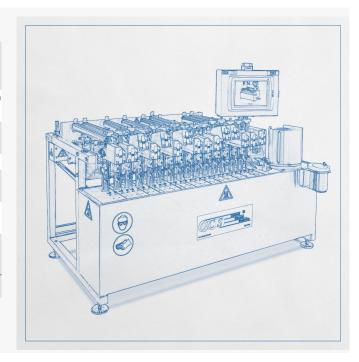
Address

OCS Optical Control Systems GmbH Wullener Feld 24 58454 Witten Germany



Technical Details

Tensile force range (infinitely	2.5-6.5 MPa for samples 10 × 10
variable pull arm system with	× 100 mm with notch depth of 1.6
115-315 N)	mm
113-313 (4)	
	15–40 MPa for samples $6 \times 6 \times 90$
	mm with notch depth of 1.6 mm
Force measurement	Electronic force sensor with a
	resolution of 0.01 N
Fluid volume	Approx. 55 I
Level control	Stainless steel float sensors and
	magnetic valves
Inlet pressure range for the	0.2-8 bar (3-116 psi)
supply of demineralised water	
Communication protocol	MODBUS (RTU, TCP/IP),
Communication protocor	· · · · · · · · · · · · · · · · · · ·
	PROFIBUS, PROFINET, OPC
	(Server/Client), CSV file, customer-
	specific
	Specific



More Product Pictures





Images, drawings and data are non-binding and subject to modification without prior notice. © 2025. All rights reserved - OCS Optical Control Systems GmbH | Wullener Feld 24 | 58454 Witten, Germany