
# 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

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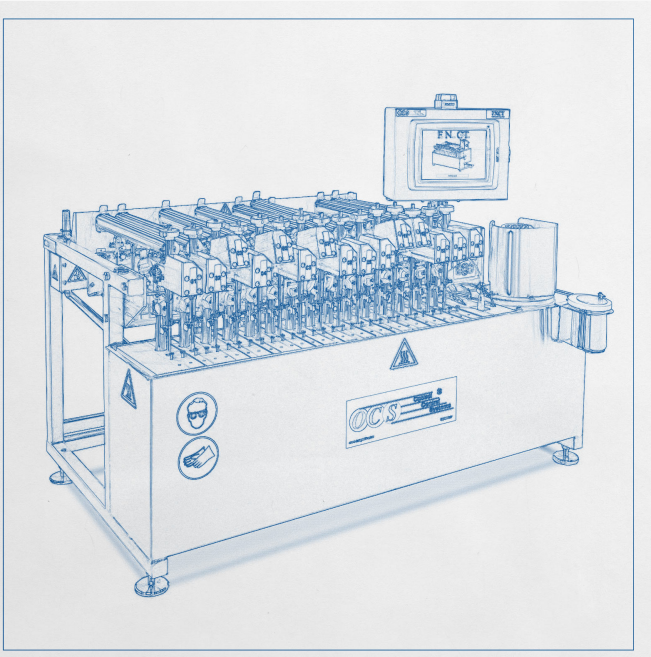
|---|---|
| **Tensile force range (infinitely variable pull arm system with 115–315 N)** | 2.5–6.5 MPa for samples 10 × 10 × 100 mm with notch depth of 1.6 mm |
| | 15–40 MPa for samples 6 × 6 × 90 mm with notch depth of 1.6 mm |
| **Force measurement** | Electronic force sensor with a resolution of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



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