



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



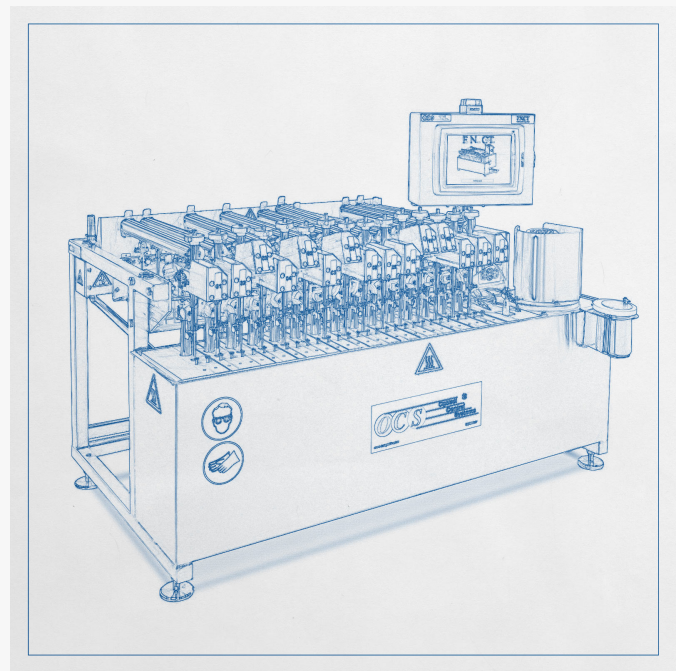
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Technical Details

Tensile force range (infinitely variable pull arm system with 115–315 N)	2.5–6.5 MPa for samples $10 \times 10 \times 100$ mm with notch depth of 1.6 mm 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 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



More Product Pictures



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