

TechnoTrak 2 and WIDE RANGE NEUPIT

TechnoTrak 2 (TT2) is our newly developed high-performance neutron-detecting plastic element made from poly allyl di-glycol carbonate (PADC). It is based on our unparalleled success in the control of false pits. WIDE RANGE NEUPIT is our original detector system that uses TT2 with two different types of filter in a dedicated plastic case to allow measurement of a wider neutron energy range.

We offer the TT2 element only or the whole WIDE RANGE NEUPIT. Please contact us for details.

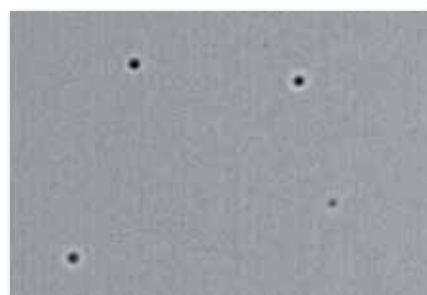


TechnoTrak2
Cutted in
Various Dimension

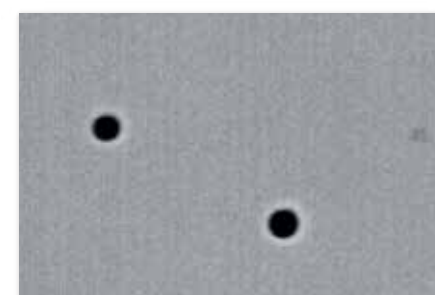
TLS-1000



TT2 with protect filter
Size: 280 x 280 mm / sheet
Thickness: 0.8, 1.25, and 1.6 mm
Custom cutting available.



144 keV neutron



565 keV neutron

Products

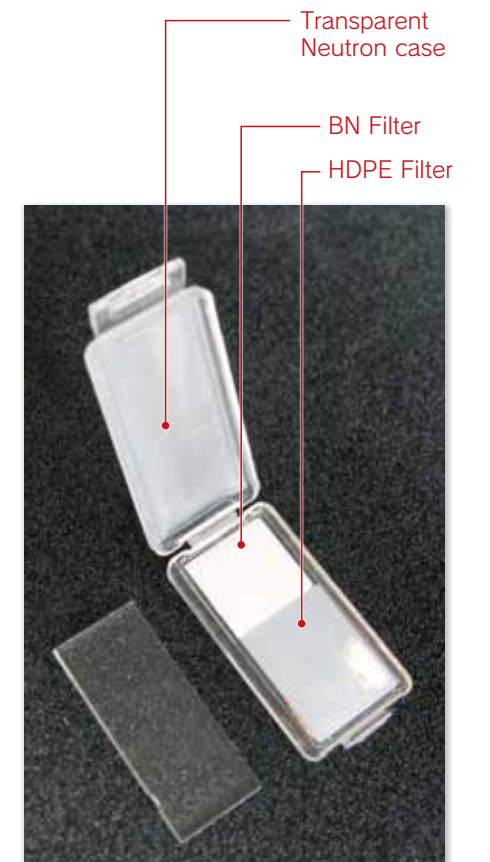
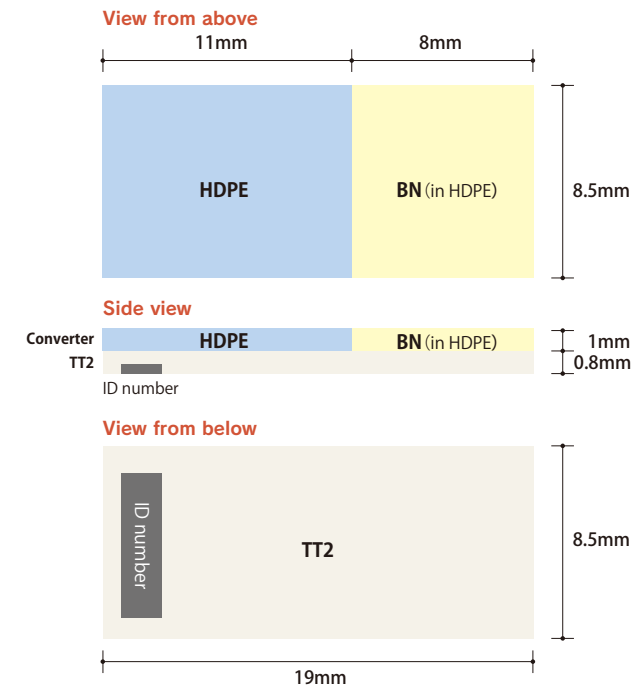
- Detector: TechnoTrak 2 (TT2)
- Dosimeter: WIDE RANGE NEUPIT
- Neutron Track Microscope System: TLS-1000

Features

TechnoTrak 2

- Supports neutrons, radons, cosmic rays, and others
- Extremely low background (false pits),
 - The average number of false pits is smaller than 100 / cm²
- Excellent fading characteristics
- Low cost measurement
 - Rapid chemical etching in high temperatures and easy-to-count round shape etch pits significantly reduce measurement cost.

Structure of WNP



Transparent neutron case (Reusable)

Features

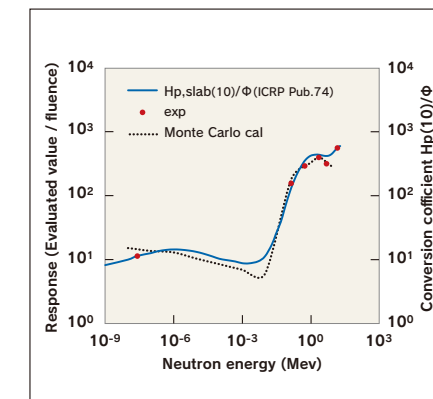
WIDE RANGE NEUPIT

- Excellent sensitivity to neutrons
 - Combination of two different elements types in our unique transparent case permits continuous measurement of neutrons from 0.025 eV to 15 MeV.
- Excellent energy characteristics
 - Repeated experiments to adjust the focus point and pit dimension have resulted excellent energy characteristics.
- High speed automatic counting system
 - Our image analysis system measures 100 pieces of TT2 detector simultaneously.

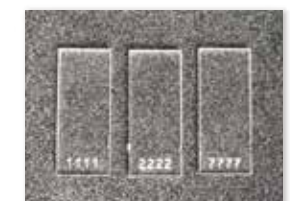
Applications

- Personal dosimeter
- Treatment rooms using accelerator

Excellent energy characteristic



Energy characteristics of WNP



TT2 element (3 pcs)



Transparent neutron case (closed)

Specifications

Measurement energy range	0.025 eV-15 MeV
Reporting dose range	Fast neutron: 0.1 mSv - 60 mSv
	Thermal neutron: 0.1 mSv- 8 mSv
Environment	-10 °C-40 °C, 95% RH

Etching condition 30 wt% KOH, 90°C, 2.5h

Note: Specifications are subject to change without notice for improvement.