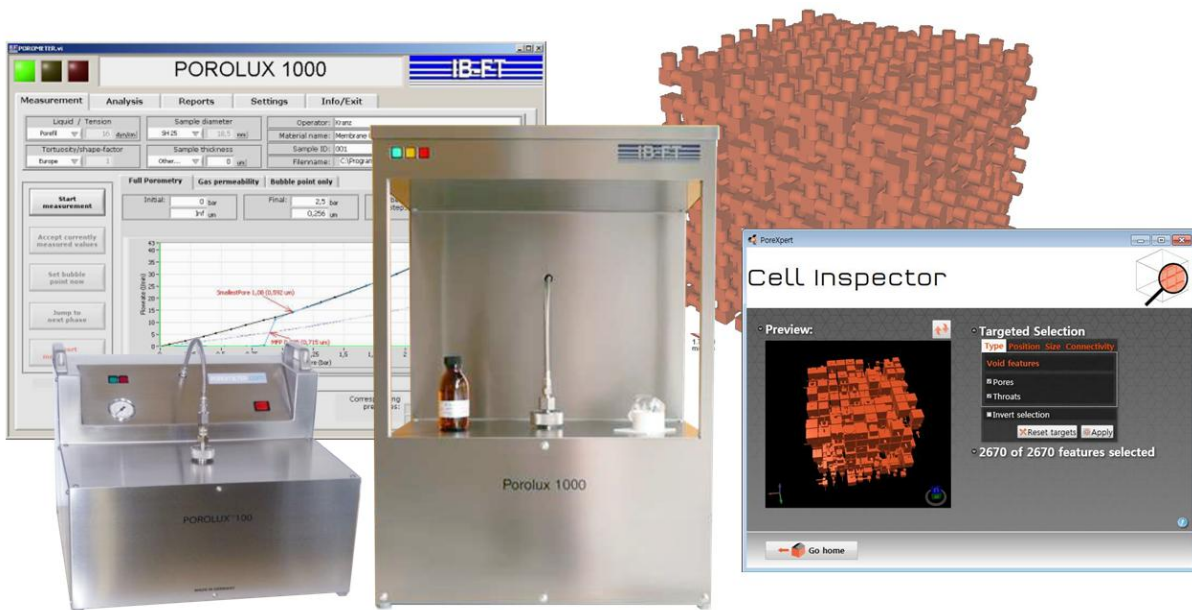




PoreXpert + POROLUX

3D Modelling & Analysis of Porous Materials

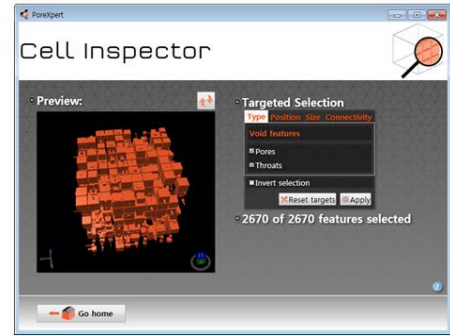
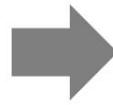


안녕하세요. (주)솔텍트레이딩입니다. 이번 5월호 뉴스레터에서는 다공성 물질의 기공 구조를 3D로 모델링하여 geometry, filtration ability, permeability 등의 특성을 시뮬레이션 할 수 있는 소프트웨어인 PoreXpert에 대해 소개하여 드립니다. 제품에 대한 문의사항이 있으시면 언제든지 연락 주시기 바랍니다. 감사합니다.

(주)솔텍트레이딩 올림



Experimental data measured by POROLUX Series



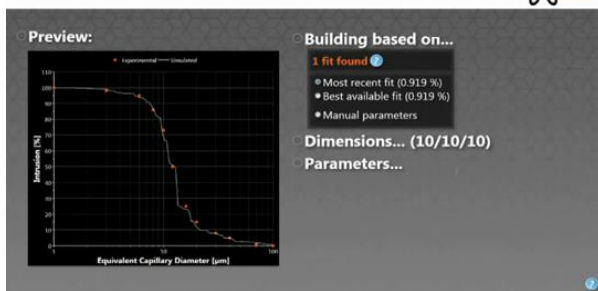
3D modelling & simulation by PoreXpert

Applications	POROLUX Series	PoreXpert
Measures through-pores in: <ul style="list-style-type: none"> • Filters • Nonwovens • Technical textile • Paper • Membranes • Hollow fibers/tubes • Sintered materials 	<ul style="list-style-type: none"> • Bubble point • Largest/smallest pore size • Mean flow pore size • Size distribution • Air permeability • User selectable resolutions 	<ul style="list-style-type: none"> • Pore geometry • Size distribution • Permeability • Filtration • Tortuosity • Microtoming • Fluid uptake

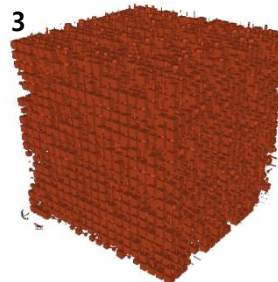
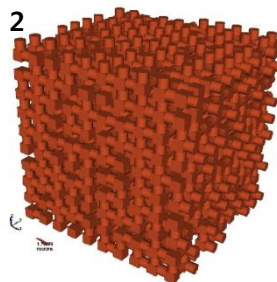
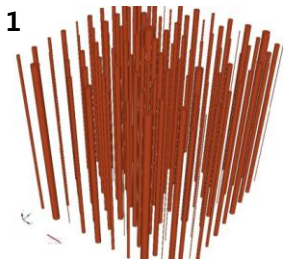
3D Modeling

PoreXpert 는 POROLUX 의 투과도 측정 결과를 바탕으로 다양한 형태의 기공 구조를 3D 로 모델링하여 geometry, porosity 등의 특성을 분석할 수 있습니다.

Curve Fitting



Cell Inspector



1. Capillary bundle
2. Cellulose nitrate filter
3. Clashac sandstone

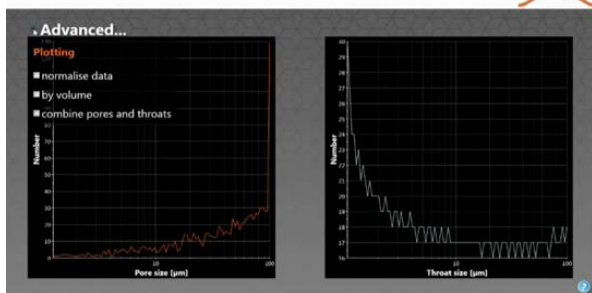
Simulation

PoreXpert 는 아래와 같은 다양한 시뮬레이션이 가능합니다.

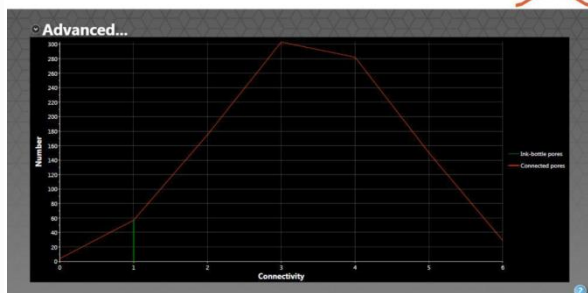
- Pore and throat size distribution
- Connectivity distribution
- Content distribution
- Permeability
- Filtration
- Tortuosity
- Microtoming
- Fluid uptake
- Fluid migration
- Thermal conductivity

(예) Filtration ability test of cellulose nitrate filter: particle size 2, 5, 10 um 로 각각 시뮬레이션

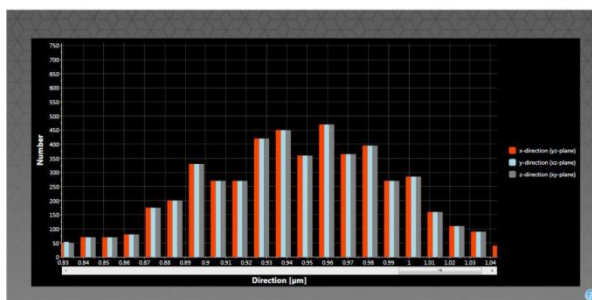
Size Distribution



Connectivity Distribution



Microtoming



Filtration



PoreXpert 웹사이트 (www.porexpert.com)에서 30 일 무료 체험 버전 다운로드와 간단한 소개 동영상을 보실 수 있습니다.

Specification of POROLUX Series

Instrument	Porolux 100 (QC)	Porolux 500 (QC)	Porolux 1000 (R&D)
Pore size range	90 nm to 500 µm	13 nm to 500 µm	
Method	Pressure scan		Pressure step/stability
Max. pressure	7 bar	35 bar	35 bar
Max. flow	100 or 200 l/min	200 l/min	200 l/min

*Options: liquid permeability, hydrohead, custom made sample holders etc.