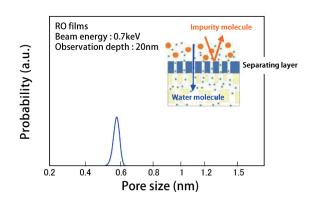
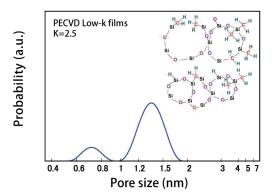
Positron Annihilation Lifetime Spectroscopy System PALS-200A

Feature

- Up to 5 samples, which can be measured automatically
- Analysis software with easy operation
- The control freely depth observation
- Measured pore size is atomic-vacancy from 10nm
- Low-damage, non-destructive







Designed and developed by

Advanced Defect-Characterization Research Group, Research Institute of Instrumentation Frontier, National Institute of Advanced Industrial Science and Technology (AIST)

Specification and Performance

- Space occupied by the equipment: 4.7mx3.2mx2.2m(H)
- Positron source: Na-22 (max.activity 1GBq)
- Positron beam energy:0.5~15keV (variable)
- Time resolution: <300ps
- γ-ray counting rate:>500cps@1GBq
- Measurement time: <1h/spectrum

Application

- VLSI materials: Low-k dielectrics, High-k gate dielectrics, Cu barrier films, Electroplated Cu films, SIO, Strained Si, Ion-implanted Si
- III-V, II-VI semiconductors: GaN, InN, ZnO, SiC, GaAs
- Porous materials, Zeolite, Membranes,
- Polymer coating films (free volume) RO films, Gas barrier films, Mesoporous materials



FUJI-IMVAC INC.

6-18 Higashi-cho, Isogo-ku, Yokohama 235-0005, Japan URL: <u>http://www.fuji-imvac.co.jp</u>