

TubeCell

*Don't change your setup,
just improve the way you are using it !*



TubeCell is an acquisition software to manage **impedance tube measurements**.

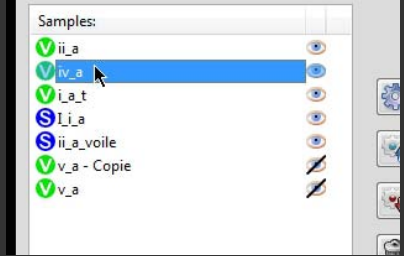
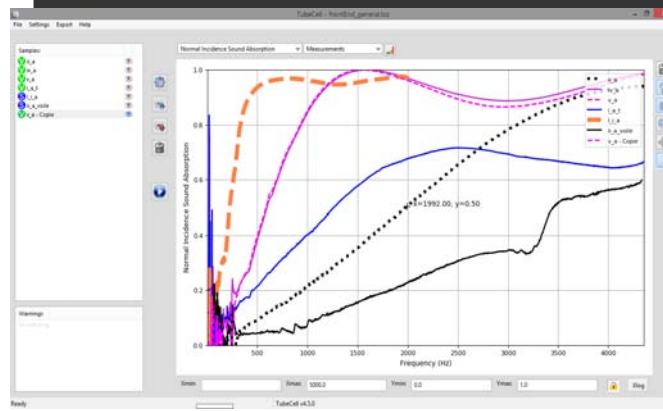
It is adapted for both the assessment of surface properties and **porous material characterization**.

Working under a measurement mode or a post-processing mode, it will simplify your measurement campaign.

It is asked for by technicians and required by engineers.

Prepare to be MATELYS approved !

TubeCell

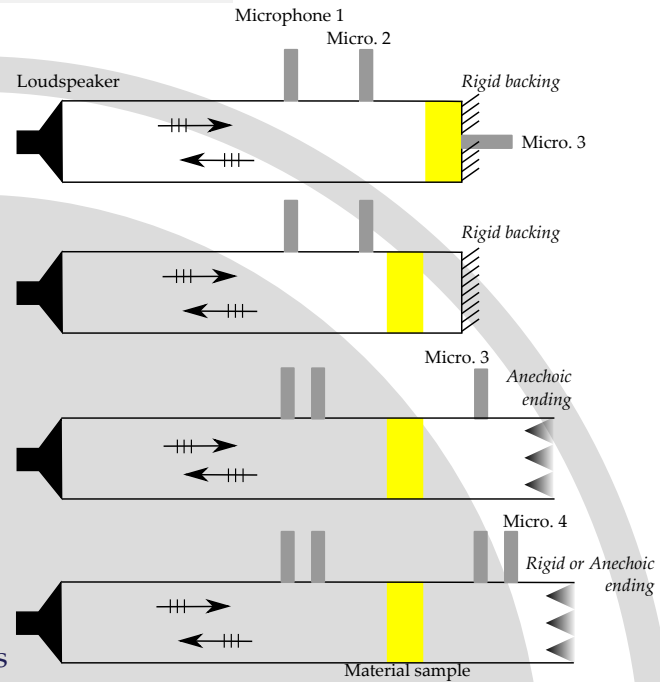


For surface properties measurements or porous characterization

- adapted to your existing setup
- handles arbitrary impedance tube configurations
- manages the pre- and post-processing.

Key features

- complying **ISO 10534-2** & **ASTM E1050-12** standards
- various source signals : **PRN**, **white noise** ...
- individual microphone **calibration**
- **ICP** and power conditioned microphones
- **guided** transfer function calibration
- guided **measurement** procedure
- **quality check**
- handles temperature, pressure and humidity conditions



Surface properties

- absorption
- transmission
- reflection coefficient
- surface impedance
- microphone transfer functions
- coherences & autospectra
- transfer matrix coefficients



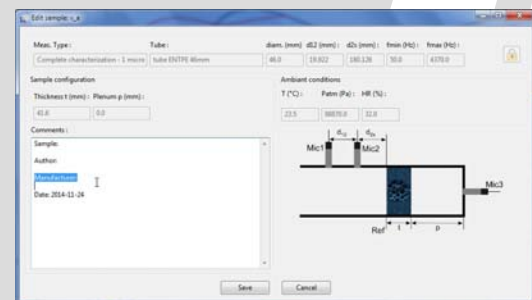
Bulk properties

- dynamic mass density
- dynamic compressibility
- characteristic wave number
- characteristic wave impedance
- dissipated powers



Dedicated features

- **2M2L** & **3M2L** methods
- **overlapping** procedure
- **multiple sample** export
- **third octave band post-processing**
- native export of **impedance data** : OptiStruct, Coustyx, VA-One
- export to **AlphaCell**
- export to **RokCell**



MATELYS also provides **turnkey impedance tubes** and **characterization setups** for :
porosity, resistivity, tortuosity, elastic modulus ...

