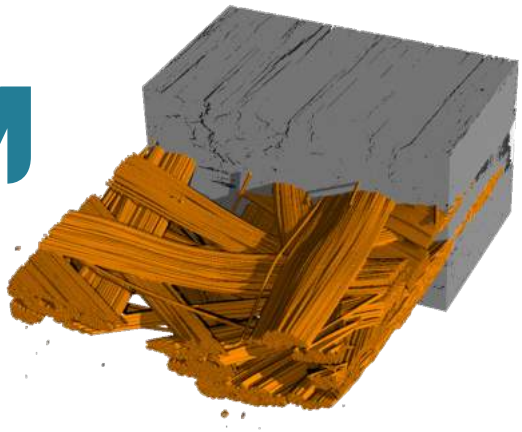
NOVITOM

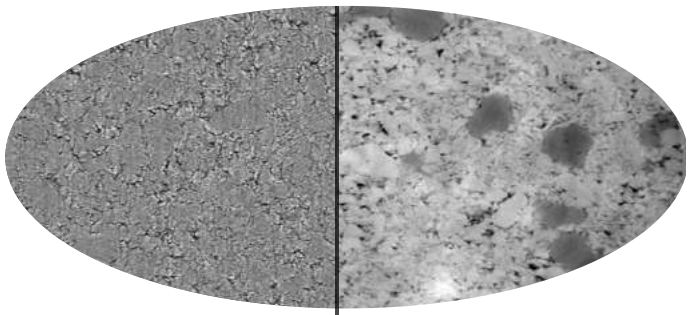
A cutting-edge technology



SR-µCT

Synchrotron radiation computed micro-tomography (SR-µCT) is a highly versatile and efficient tool that will provide unique information on the widest range of specimens.

> Pixel size : 0.2 µm --> 50 µm
> Max sample dimensions: diam = 50 cm, height = 2m
> Max sample weight: 50 kg
> Absorption and **phase contrast**
> Energy up to 400 keV (to go through 7 cm of steel)



Absoprtion: only the porosities (black) can be distinguished from the other components (grey) inside a pharmaceutical tablet.

Phase contrast: the active principle (dark grey) is clearly distinguished from the excipient (light grey) and the porosities (black).

Lab-µCT

Laboratory computed micro-tomography (Lab-µCT) is a very efficient tool dedicated to accurate internal visualisation of any X-ray absorbing specimen.

> Pixel size : 5 µm --> 100 µm
> Max sample dimensions: diam = 20 cm, height = 0.5 m
> Max sample weight: 50 kg
> Min probed volume: diam = 10 mm, height = 8 mm
> Absorption contrast only
> From 10 kV to 230 kV input voltage

SR-nanoCT

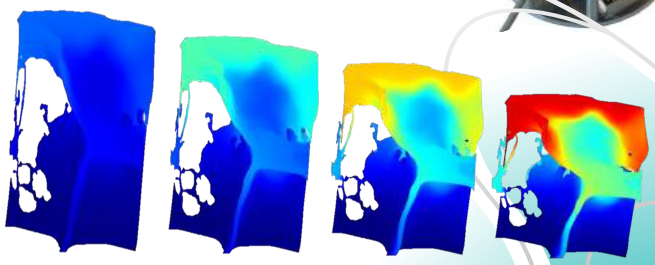
Synchrotron radiation computed nano-tomography (SR-nanoCT) is the ultimate tool that will provide information of the uttermost precision and with unparalleled sensitivity.

> Pixel size : 20 nm --> 100 nm
> Max sample dimensions: diam = 2 cm, height = 5 cm
> Max sample weight: 0.5 kg
> Quantitative **phase contrast**
> From 20 keV to 60 keV energy range

In situ testing

SR- and Lab-µCT are compatible with in situ testing equipment, allowing real-time process monitoring.

> 3D scan time : < 1 s
> Temperature control: -100°C --> 1500 °C
> Humidity control
> Stress control: 5 N --> 5 kN
> Traction, compression, bending, fatigue



Contact

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