

Micro-CT HA

QRM-MicroCT-HA

A Phantom for calibrating CT-values.
The five inserts provide most favorable
density of CaHA for in-vivo or in-vitro
Micro-CT bone calibration.

A Phantom housing five cylindrical inserts
containing various densities of CaHA (calcium
hydroxyapatite). The phantom can be used for
bone density calibration purposes as well as high
contrast resolution evaluations.

The standard phantom is scaled down from the
diameter of an average human trunk (32 cm) to
that of a fat mouse or lean rat (32 mm).

Other diameters and HA quantities upon request!

Specifications

HA-concentrations of the five cylindrical inserts:

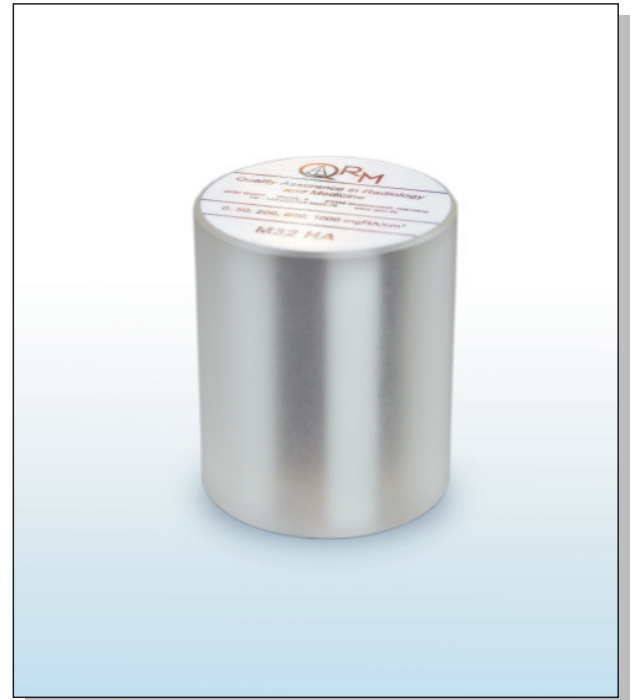
	mg HA/cm ^{3*}	ρ g/cm ^{3*}
HA 0	0	1.13
HA 50	50	1.16
HA 200	200	1.26
HA 800	800	1.65
HA 1000	1000	1.78

*Actual values vary slightly with charge and
will be specified for each delivered item.

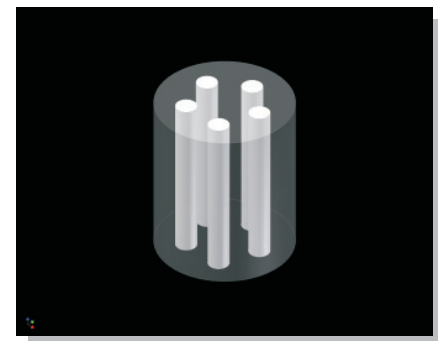
Base material resin
Diameter of inserts 5 mm
Diameter 32 mm
Length 38 mm
Weight 35 g

References:

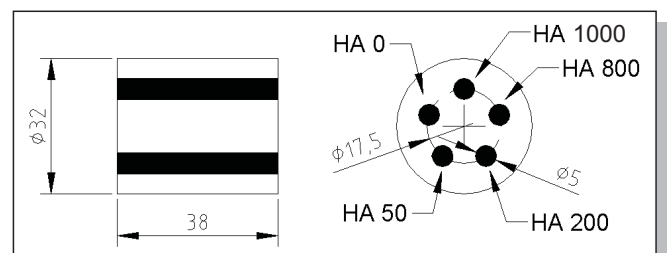
[1] Kalender, W., Durkee, B., Langner, O., Stepina, E.,
Karolczak, M.: Comparative Evaluation: Acceptance
Testing and Constancy Testing for Micro-CT Scanners.
Biomedizinische Technik 50 (2005), 1192-1193



Micro-CT HA Phantom



5 inserts of different CaHA quantities



Schematic drawing of the Phantom