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Anthropomorphic Hollow Infant Head Phantom

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Qty 1+	**€5.415,00** each
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Product Downloads

General

Type:
Infant head

Contents of Kit:
infant head phantom, instruction, datasheet

Physical & Mechanical Properties

Weight (g):
98.3

Dimensions (mm):

Circumference at a forehead level: 330mm

Material Properties

Reduced Scattering Coefficient, μs':
12

Absorption Coefficient, μ_a:
0.2

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Product Details

- Realistic Optical and Anatomical Properties for Accurate Calibration and Validation of Optical Imaging Systems
- Available in Versions Suited For fNIRS, Fluorescence Imaging, And Diffuse Correlation Spectroscopy Applications
- fNIRS Version Enables Standardized, Repeatable Performance Testing and Regulatory Compliance (IEC 80601-2-71)
- Supports Life Science and Medical Device Research Focused on Brain-Related Optical Imaging

Anthropomorphic fNIRS Phantoms offer a comprehensive set of reference models for validating and benchmarking optical imaging systems in brain-related and life science research. This includes homogeneous adult and infant head phantoms that replicate the optical and anatomical properties of human tissue, and an infant hollow head phantom that allows for internal source placement or component testing. For more advanced performance evaluations, the Dynamic Liquid Phantom mimics micro-vasculature using a flow system with a liquid-filled channel, pump, and control hardware—allowing researchers to study how light interacts with moving or absorbing media and to assess imaging depth, absorption sensitivity, and spatial resolution. In addition, the fNIRS Phantom, designed in compliance with IEC 80601-2-71, provides a standardized reference for evaluating fNIRS system performance. These phantoms are ideal for researchers and medical device developers, delivering standardized, compliant tools that support reliable, reproducible imaging performance.

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