

# OTA PHANTOMS

## SAM-V4.5BS



**SAM** head phantom **V4.5** with **Broadband** head Simulating gel

Lightweight homogeneous anthropomorphic head phantom filled with a broadband head tissue simulating gel for OTA evaluation and optimisation of mobile phone devices

Optional:

- [Mask6V1/2](#) mask for 6° rotation of the SAM Head cheeks
- [SHO-FTMV2](#) talk mode fixtures
- [SAM-PPV1](#) phone positioner

<b>Application</b>	Assessment of radiation pattern or total radiated power of mobile phone devices in talk mode in combination with a hand phantom or in head-only mode		
<b>Compliance</b>	Fully compliant with CTIA Certification Standard "Test Plan for Wireless Device Over-the-Air Performance"	Geometry compliant with SAM data as defined by IEEE SCC34 and 3GPP TR25.914 "Measurements of Radio Performances for UMTS Terminals in Speech Mode" Release 6	
<b>Dimensions</b>	Width: 250 mm (without phone positioner) Depth: 269 mm Height: 394 mm (incl. feet)		
<b>Construction</b>	Phantom Shell:  high precision injection moulded PP made of low-loss plastic (dielectric constant < 5.0, loss-tangent < 0.05), thickness: 2 ± 0.2 mm, integrated positioning lines, sealed top cap	Gel filling:  dielectric parameters compliant with head simulating media as defined by IEEE/IEC and CTIA standards over the entire frequency range (0.3 – 6GHz), volume 5.9 liters (7.2 kg), stable for a minimum of three years if kept sealed and in temperature range 22 ± 5 °C. Typical dielectric properties of the gel filling under <a href="#">CTIA300-6000V6</a> description	Mounting on a Turntable:  8mm holes in a plane 210 mm wide x 174 mm deep
<b>Frequency Range</b>	0.3 – 6 GHz		
<b>Compatibilities</b>	Compatible with all SPEAG's <a href="#">SHO-</a> and <a href="#">mmW-SHO-</a> hand phantoms designed for talk mode testing using fixtures <a href="#">SHO-FTMV2</a>	Compatible with phone positioner <a href="#">SAM-PPV1</a>	