



## Model 137 Mini Hybrid Phantom Spec Sheet

- Developed in collaboration with NIST, ISMRM, RSNA/QIBA.
- Ø170 mm spherical shell.
- T2 mimics: 14x spheres with NIST-traceable  $\text{MnCl}_2$  solutions from ~5 ms to ~550 ms.\*
- ADC mimics: 10x 15 ml vials with traceable aqueous solutions of PVP in concentrations from 10% ( $1.55 \times 10^{-3} \text{ mm}^2/\text{s}$ ) to 50% ( $0.27 \times 10^{-3} \text{ mm}^2/\text{s}$ ).\*
- Water reference: 4x 15 ml vials with HPLC water ( $2.00 \times 10^{-3} \text{ mm}^2/\text{s}$ ).\*
- T1 mimics: 14x spheres with NIST-traceable  $\text{NiCl}_2$  solutions from ~20 ms to ~1900 ms.\*
- Fiducial markers: 15x Ø10 mm spheres on 50x50x50 mm (X/Y/Z) grid, accurately positioned to 100  $\mu\text{m}$ .
- Patented ten-element liquid crystal (LC) thermometer, MR-readable, for temperature compensation from 15°C to 24°C.
- Resolution pattern with hole diameters from 0.4 mm to 0.8 mm.
- Slice profile crossed wedges set precisely at 10°.
- Compatible with qCal-MR® QA/QC software.



CaliberMRI provides MRI phantoms with calibration solutions and tissue mimics that have traceability up to and including full SI traceability through NIST when available.

\*Nominal values taken at 3T at 20°C