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# Soft-tissue mimic kit

## What's new?

Precision Acoustics is pleased to announce the launch of a new soft-tissue mimic kit allowing users a cost-effective and convenient route to cast their own tissue phantoms.

**The user-castable** phantom is supplied in kit form consisting of components required to form a soft-tissue mimic material based on the recipes outlined in **IEC60601-2-5:2015** (Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment) and **IEC 60601-2-37:2024** (Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment).

It is a cost-effective solution that is ideal for destructive studies, research and development or metrological uses and comes in 2.5 litre and 5 litre kits.

The applications are:

- Diagnostic ultrasound studies
- Therapeutic ultrasound studies and HIFU
- Research and development
- Training aid



The benefits of the kit are:

- **IEC approved formula** – ideal for R&D leading towards regulatory approval
- **Convenient sized kits** – get all the ingredients you need in just the right quantities
- **Non-toxic** – safe and easy to use formula

If you have a particular requirement, talk to us about our custom materials development and fabrication services if you require specific set of materials properties.

For further information contact our sensors team at [sensors@acoustics.co.uk](mailto:sensors@acoustics.co.uk), visit our website: <https://www.acoustics.co.uk> or call +44 (0)1305 264669 to discuss your requirements.

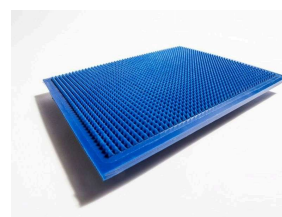
## Did you know ...

There are many different families of materials that are commonly used as tissue mimic materials for ultrasound studies. We have compiled a table of properties with our ratings for each material to help you decide which one might be the best fit for your application.

Material family	Non-toxic ingredients	Temperature range	Stability in water	Shelf life	Acoustic properties	Ease of manufacture	Durability
Agar Hydrogel	5	3	4	4	5	4	2
Gelatin Hydrogel	5	2	1	2	5	5	2
Gellan Gum Hydrogel	5	4	4	4	5	4	2
Acrylamide Hydrogel	0	4	4	4	4	3	2
Polyvinyl Alcohol (PVA)	5	3	4	5	4	2	2
Silicone	4	5	5	5	2	3	5
Polyurethane	1	5	5	5	2	3	5

Visit our website for further information on our tissue phantom kits

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