

Technovit Kits

Produced by Heraeus Kulzer in Germany, a range of embedding systems for the preparation of biological and material samples.

Technovit Biological Resins

TAAB is the exclusive UK distributor for Technovit resins

Technovit 7100

For Morphology and Enzyme Histochemistry.

A specially formulated 3 component Glycol Methacrylate, developed to provide excellent structural detail and histochemistry without changing processing routines from wax histology.



T218

Consists: set to make 500ml of embedding mixture

Technovit 8100

For Morphology and Immunocytochemistry.

Retains all the benefits of Technovit 7100 with an almost odourless plasticiser and low polymerisation temperature (can be polymerised at sub zero temperatures). Achieves excellent results with immunoreactive tissues especially when used with Histoform Teflon embedding moulds.



T220

Consists: set to make 500ml of embedding mixture

Technovit 9100

For Dense and Mineralised Tissue.

An easy-to-handle Methyl Methacrylate 3 component kit giving short processing times and low polymerisation temperatures. Excellent preservation of morphology. Supports tinctorial and enzymatic stains if the resin is removed from the section with the solvent 2-Methoxyethanol. Can also be used for the preparation of thick sections of specimens by sawing and grinding.



Can be used stabilised or unstabilised depending on level immuno sensitivity required. Removal of stabiliser is undertaken using aluminium oxide in a chromatography column

T223

Consists: set to make 1000ml of embedding mixture

Technovit Material Science Resins**Technovit 4000**

A fast curing 3 Component polyester based white resin for gap-free embedding of difficult samples.. Abrasion resistant and giving good marginal definition. Remains mobile for approximately 4 minutes after mixing and cures in 7-8 minutes. Low shrinkage (0.1 to 0.2%) means etching and cleansing agents cannot penetrate between specimen and resin. **Insoluble.**



Available in three kit sizes

T229

Set to make 240ml of embedding mixture

T230

Set to make 1500ml of embedding mixture

T231

Set to make 3000ml of embedding mixture

Technovit 4004

A cold curing 2 Component (powder/liquid pack) methacrylate based resin which can be cured at room temperature and under pressure at 2 bar for crystal clear embedding. Suitable for specimens which require transparent low temperature embedding. Remains mobile for 3 minutes after mixing and cures in 4-6 minutes.

**T233**

100g/80ml to make 180ml of embedding mixture

Technovit 4071

For specimens where simple handling and speed of embedding are important and which cannot be exposed to high temperature. After mixing the 2 component resin remains mobile for approximately 2 minutes allowing dispersion into all crevices. Curing takes 3-5 minutes depending on mixing ratio and ambient temperature.

**T238**

Set to make up to 180g of embedding mixture

Technovit 5071

With the same characteristics as Technovit 4071 but can be **dissolved** in organic solvents such as trichloroethylene, acetone and dichloroethane.

**T246**

Set to make 180g of embedding mixture
Kit no longer available. Buy components T247/T248 & T249/T250 listed in Embedding Chemicals Section

Technovit 5000

A **conducting** mounting medium with the same characteristics as Technovit 4071. A copper filled electrically conducting 2 component (160g/80ml) resin.

**T343**

Consists: set to make 240g of embedding mixture

Technovit 2000LC

The Technovit 2000 LC system consists of a light-curing embedding resin, a covering varnish, a fixing paste, the Technotray CU light curing device and the special embedding moulds. These components are designed to function together.

Technovit 2000 LC is a very tight-fitting embedding agent and has been specifically developed for testing and preparing sensitive materials and micro-components. Technovit 2000 LC is mainly used for semiconductor technology, microelectronics, medical technology, optoelectronics and microsystems technology. It is also suitable for embedding materials that are very temperature-sensitive.

| | |
|-----------------|--|
| T251 | Set to make 1 litre of embedding mixture |
| T400 | Technotray Blue Light Unit |
| T251/P | Fixing Paste |
| T251/V | 2000LC Varnish |
| T251/M15 | Embedding mould 15mm Ø |
| T251/M30 | Embedding mould 30mm Ø |
| T251/M40 | Embedding mould 40mm Ø |
| T251/M50 | Embedding mould 50mm Ø |



Please ask for Data Sheet

**Technovit 3040**

A fast cold curing resin, based on methacrylate, supplied as a 2 component (100g/80ml) resin that cures in 5-10 minutes depending on room temperature. Used to securely bond a Histobloc to the specimen in embedding systems or for impression making in material science.

**T224**

Consists: set to make 180g of embedding mixture

Technovit Epox

A Premium embedding medium for Porous Materials ensuring gap free embedding with low shrinkage, high transparency, strong adhesion and UV stability

A two component epoxy based kit. Regular or fast embedding can be selected with choice of hardener. An ideal choice where porous metallurgical samples may need to be embedded under vacuum.

| | | |
|-------------|------------------------------|------|
| T277 | Epox resin | 1Kg |
| T278 | Epox Hardener <i>Regular</i> | 500g |
| T279 | Epox Hardener <i>Fast</i> | 500g |

Technovit Provil Novo Silicone

A soft and light surface impression silicone – easy to use and safe. Particularly suitable for casting complex geometric shapes or overhead castings. Can be removed without leaving a residue.

T554 Provil Novo Putty regular (3 part)

T555 Provil Novo Putty Soft (3 part)

T556 Provil Novo Regular Light

Please ask for Data Sheet