



## FRESHWATER SAMPLING NETS AND EQUIPMENT

PRODUCT INFORMATION - MARCH 2020

Welcome to the home of quality, robust and effective freshwater sampling equipment made in Rotorua, New Zealand, by Alchemists Limited. We provide a range of standard fisheries, invertebrate and water quality sampling equipment and can also cater to produce one-off products and designs for particular projects. For our standard range see the following pages or alternatively get in touch to discuss any custom-made requirements.

### Scoop nets



#### 300 mm diameter Scoop net

This scoop net is 300 mm in diameter, constructed of a solid 9 mm aluminium hoop mounted onto a wood or fiberglass pole. The pole come as a 1.2 m length, but can be cut shorter to suit your needs.

The net is constructed from 4 x 4 mm ply knotless black mesh or in 2.5 x 2.5 mm 5 ply knotless blue mesh. This scoop net is 400 mm deep.

We also offer replacement nets which are easily fitted by unbolting the net hoop.



#### 200 mm diameter Scoop net

This scoop net is 200 mm in diameter, constructed of a solid 6 mm aluminium hoop mounted onto a wood or fiberglass pole. The pole come as a 1.2 m length, but can be cut shorter to suit your needs.

The net is constructed from 2.5 x 2.5 mm 5ply knotless blue mesh. The scoop is 300 mm deep.

We also offer replacement nets which are easily fitted by unbolting the net hoop.

## Invertebrate nets and equipment



### Triangle invertebrate net

Small kick net with a 300 mm wide triangular mouth. Made with 500  $\mu$ m monofilament mesh and soft durable polyester webbing. Also available in 250  $\mu$ m mesh.

Sturdy 9 mm solid aluminium frame and handle (600 mm long).

We also offer replacement nets which are easily fitted by unbolting the net hoop.

Ideal for schools and community groups.



### D invertebrate net

Standard 500 mm wide "D" shape kick net. Made with 500  $\mu$ m monofilament mesh and soft durable polyester webbing. Also available in 250  $\mu$ m mesh. Design meets NZ protocols for invertebrate sampling.

Sturdy 12 mm solid aluminium frame and handle (1.2 m long). Additional option for fitting of a sample collection cup.

We also offer replacement nets which are easily fitted by unbolting the net hoop.



### Surber sampler

Made with 500  $\mu$ m monofilament mesh and soft durable polyester webbing. Also available in 250  $\mu$ m mesh.

0.1 m<sup>2</sup> sample area within frame. Design meets NZ protocols for invertebrate sampling.

Sturdy aluminium frame. Net collapses for ease of transport and handling. Additional option for fitting of a sample collection cup. We also offer replacement nets which are easily fitted.





### **Hester-Dendy samplers**

Standard 76 mm x 76 mm plates made in roughened 3 mm acrylic – 14 plates in each sampler with 3 mm and 6 mm spacers. Assembled onto 6 mm stainless steel bolt with eye and wing nut.

Mounting brackets also available and samplers can also be made in masonite (tempered hardboard).



### **Invertebrate sieve buckets**

Our invertebrate buckets are great for sieving samples. Made of stainless steel bucket and mesh they are lightweight and robust for using in the field.

Internal mesh is 500 mm stainless steel. This is protected by heavy 10 mm stainless steel mesh on the base. Bucket is fitted with a spout for easy decanting.

## **Plankton nets**



### **Plankton nets**

Our plankton nets come in a standard size of 200 mm diameter and 400 mm long. They feature a collection cup at the toe end which unscrews to decant the sample.

They can be made in a range of mesh sizes.

## Water quality measurement



### **Black discs and viewers**

We can provide secchi discs and viewers for either stream or lake water clarity measurements.

Black discs come as sets with standard diameters of 200 mm, 100 mm and 60 mm. All are made of black acrylic.

### **River/stream horizontal disc viewer**

Made in sturdy aluminium with double handles and rubber face "gusset" (picture one). We also make the standard pole on which to mount the black disc.

### **Telescopic pole**

For smaller streams we provide an adjustable pole constructed of carbon fibre (picture two).

### **Lake vertical disc viewer**

Made in sturdy aluminium with double handles and rubber face "gusset" (picture three).



## Fish sampling equipment



### Stop-nets

We can produce stop nets in any of our mesh sizes for use in the field. The nets come with a heavy chain link base and can be made with either wooden or fibreglass poles. The standard stop net size is 1.4 m wide and 1.1 m high with 1.6 m poles.

We can also make smaller versions which some clients have found handy for use in narrow streams (1 m wide x 800 mm high).



### Fish measuring boards

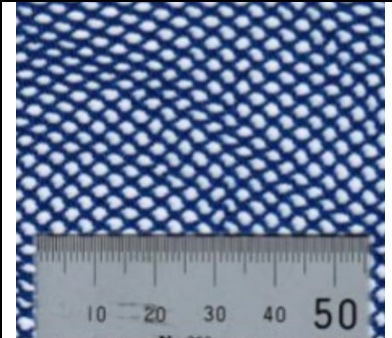
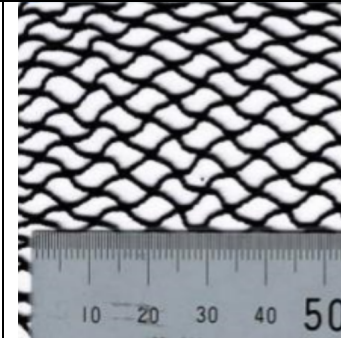
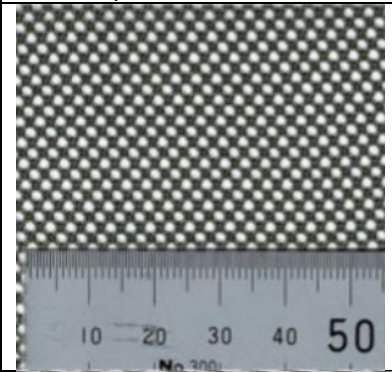
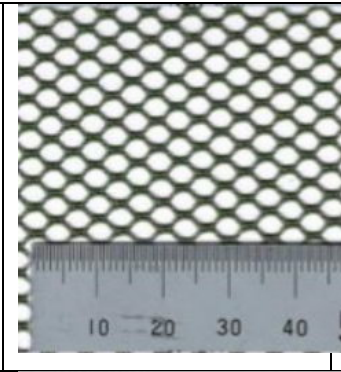
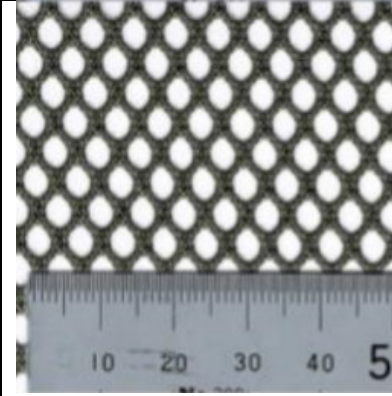

Our fish measuring boards are made of lightweight, durable aluminium and come in three one piece standard sizes: 300 mm, 600 mm and 1000 mm. The boards have a flat "v" which assists with ease of measurement.

We can make other custom lengths if required.

***Note that we do not make or supply either fyke nets or gee-minnow traps for fish sampling.***

## A guide to mesh sizes and options

All meshes are knotless netting with a soft to touch finish in a diamond mesh configuration of multi-filament nylon that has been UV treated.

	<p>Knotless mesh – 5 ply Hole size: 2.5 x 2.5 mm Colour: Blue</p>		<p>Knotless mesh – 9 ply Hole size: 4 x 4 mm Colour: Black</p>
Can also provide 6x6 mm and 15x15 mm knotless meshes			
	<p>Hexi mesh – Hole size: 1.5 x 1.5 mm Colour: Olive</p>		<p>Hexi mesh – Hole size: 3 x 3 mm Colour: Olive</p>
	<p>Hexi mesh – Hole size: 4 x 4 mm Colour: Olive</p>		<p>Monofilament mesh Colour: White Sizes: - Std sizes: 500 µm, 250 µm - Other options: 200 µm, 75 µm, 33 µm</p>

## Custom made equipment

In addition to our standard range, we have made nets and other equipment to fill particular needs.

Examples include:

- Long pole less stop nets (seine nets) for upstream/downstream use to seal off stream areas;
- Extra-long fish measuring boards;
- Alternate shaped frames for nets (i.e. Inverted-D Net frame, flat sided scoop net frames);
- Variations to net handles (i.e. sideways adjustable handle for standard “D” shape kick net for use on steep areas, telescopic aluminium poles on scoop nets for spotlighting);
- Sieving bags for capturing marine bed cores underwater;
- Eel bags

## Getting in touch

Contact us at [info@alchemists.co.nz](mailto:info@alchemists.co.nz) or Tony on 021 911953 for more detailed information on each of our standard products as well as our current prices. We are also happy to discuss any custom requirements you might need for your work and see if we can help you out.

