

Nets for Microplastic Sampling

Different nets adapted to various environmental conditions



ABOUT

Plastic debris in the environment - a problem which is drawing more and more attention. One reason for this is that plastic will never really biologically degrade and disappear from our environment but become so called Microplastic. Microplastics are small particles ranging from 1µm to 5mm.

Tons of those particles get into our natural waters and end up in our oceans. Up to now it is not yet fully understood what physical and chemical impacts microplastic is having on any kind of living organisms.

The establishment of a reliable, verified and standardised method to quantify the amount of microplastic particles in the environment plays a key role to assess the consequences of plastic debris in aquatic ecosystems.

FEATURES:

- ▶ Two different floating devices available
- ▶ Large variety of mesh sizes
- ▶ Light weight but robust soft net buckets
- ▶ High-speed version (up to 8 knots) available



An important step in microplastic research is sampling – getting the particles out of the waters in order to quantify and examine them.

We offer two kinds of nets designed to sample a layer of approx. 20 cm at the water surface, the region where low density micro debris accumulates.

Two different floating devices can be chosen according to the varying operational requirements:

For sampling at open seas the **Neuston Net** with a slim **aluminium katamaran** is recommended. It can be operated with greatest stability even under rough conditions. The maximum speed is rated to 8 knots.

The smaller **Microplastics Net** with **two lifting bodies** is made for operation at inland waters, coastal areas and the open sea under calm conditions. The maximum speed is rated to 3 knots.

TECHNICAL DATA

Net bag	70 x 40 x 260 cm (w x h x l)
Material	Neuston Net: Anodized aluminium Microplastics Net: Stainless steel
Dimensions	Neuston Net katamaran: 220 x 60 x 300 cm (w x h x l) Microplastics Net frame: 115 x 45 x 20 cm
Weight:	Neuston Net: 100 kg Microplastics Net: 12 kg

ORDERING INFORMATION

Products	
438 211	Neuston Net for microplastic sampling Katamaran swimmer body of aluminium, length 300 cm With adjustable holding rack for one single net Mouth opening 70x40cm, length of net bag 260cm Mesh size 300 microns (or to be specified) Soft net bucket with boltrope and fixing ring
438 214	Microplastics Net with two lifting bodies Mouth opening 70x40cm, length of net bag 260cm Mesh size 300 microns (or to be specified) Soft net bucket with boltrope and fixing ring
438 213	Net Part for both Microplastic nets: 438 211 and 438 214 Mouth opening 70x40cm, length of net bag 260cm Mesh size 300 microns (or to be specified)

