STC Perfoplast™ seawater filters from Holland

Seawater is an essential, renewable and ever-present mechanical element for a ship. Before seawater can be used in the engineering system of a ship, any unwanted materials and pollution needs to be removed to avoid damage to precious systems.

Such filters are usually made of ferro steel, galvanised steel and stainless steel, causing corrosion issue in the filters and surrounding systems. To combat these challenges, STC Trade B.V. has developed innovative STC Perfoplast™ filters.

STC Perfoplast™ filters are a durable, non-corrosive, high-performance alternative for common metal filters. STC Perfoplast™ filters are made of HDPE (High-Density Polyethylene), a strong, light and durable material with excellent seawater resistance. Our filters are an environmentally friendly solution that also reduce the cost of ownership.

HDPE filters used in engine rooms are protected in seawater inlet strainers and submerged in water. Therefore, this is allowed under IMO-rules.

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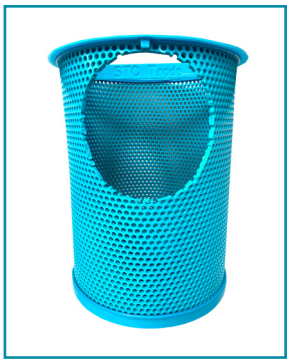
Diameter hole (mm)	Pitch/centre distance (mm)	Permeability (%)
2	3	40,3
2	3,5	29,6
2	4	22,7
3	5	32,6
4	6	40,3
5	8	35,4
6	8	51,0
6	10	32,6
8	10	58,0
8	12	40,3



Benefits

STC Perfoplast™ filters have the following benefits:

- Perfect corrosion-resistance and strong material results in an (almost) unlimited lifespan.
- Smooth, fouling-resistant surface ensures less fouling, easy cleaning and better water flow properties.
- Up to 70% weight reduction, resulting in a lightweight filter and uncomplicated maintenance.
- STC Perfoplast™ filter does not contribute to electrolytic corrosion in the engineering system.
- Accepted under IMO regulations.
- Sustainable product, 100% recyclable.
- Custom-made design & engineering available.

Custom-made

STC Trade designs and manufactures custom-made filters. Due to its versatility, STC Perfoplast™ filters can be deployed during the new-build or refit stage or as onboard replacement while the ship is operational. STC Perfoplast™ filters can be supplied for any leading brand of strainer or can be custom engineered to fulfil your specific needs.

Alternatively, STC Perfoplast™ filters can be used in combination with STC Fiberstrain™ HDPE or GRE strainers.

STC Perfoplast™, supplying commercial ships since 2009.

Powered by STC Trade
sales@stctrade.nl
+31 6 51790638
stctrade.nl

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