

# SUPASORB

## High Capacity Oil Removal Modules

The removal of trace hydrocarbons from partially processed water prior to discharge can be a challenging and costly exercise. In response to the need for better technology for this application, Amazon Filters has introduced the SupaSorb range of cartridges. SupaSorb cartridges are so effective that they can absorb up to 300% of their dry weight in oil/hydrocarbon. These modules provide economical removal of up to 99% of oil and emulsions and are ideal for use as a polishing step downstream of existing bulk oil removal technologies. Where the contamination level is < 500 mg/l, efficiency is maintained at high flow rates. Therefore they offer a compact solution for oil removal that reduces the environmental impact of oilfield and process industry operations. SupaSorb cartridges are available in the most common standard single and double open-ended formats so can be used in existing filter housings.

### Typical Applications

- Produced Water - The water released with oil and gas extractions is likely to contain both dissolved and dispersed hydrocarbons. SupaSorb cartridges can be used as an end of pipe solution down stream of the primary oil removal process

- Displacement Water - Water used in down-hole operations will be contaminated with hydrocarbons when displaced. The use of SupaSorb cartridges will help meet target discharge levels.
- Rig and Tanker Slop Water - Installation 'run-off' water produced by operations such as washing and flushing and by rainfall will be contaminated by oil. Run-off water can be treated by SupaSorb cartridges to ensure compliance with over board discharge limits.
- Well Test Water - Water extracted during well production testing will contain high levels of hydrocarbons. SupaSorb cartridges can be used as a polishing step downstream of primary treatment to ensure discharge limits are met.
- Pipeline Purge Water - SupaSorb cartridges can be used to remove oil from water used to purge pipelines to enable discharge into the environment.



## Features and Benefits

- SupaSorb absorbs up to 300% of its dry weight of oil/hydrocarbons
- Typically absorbs up to 99% of total hydrocarbons in water
- Proven technology offers effective oil removal at high flow rates thus reducing system size and footprint
- Easy to install and operate with low capital and operational costs
- Modular design allows appropriate sizing for all flow rates
- Compact design means easy disposal of spent cartridges

## Engineering Capabilities

Amazon Filters are experts in the design and manufacture of filter housings that meet the critical demands of the Oil and Gas industry. We have extensive experience in the manufacturing of vessels in Duplex (UNS S31803), Super-Duplex (UNS S32750/60) and 316 stainless steels. We also supply carbon steel vessels lined with rubber, vinyl ester or glass flake. Our design team is fully conversant with the increasing technical demands of pressure vessel design codes including ASME VIII, PD5500 and EN13445. All our products meet the demand of ATEX and conform to the latest version of the Pressure Equipment Directive (PED) 97/23/EC.

AMAZON

# SupaSorb Technical Data

## Dimensions

Outside Diameter: 70mm  
117mm (B-Blue)  
158mm(HFC)

## Materials of Construction

Media: Modified Cellulosics  
Core, Net and Connections: Polypropylene

## Maximum Operating Conditions

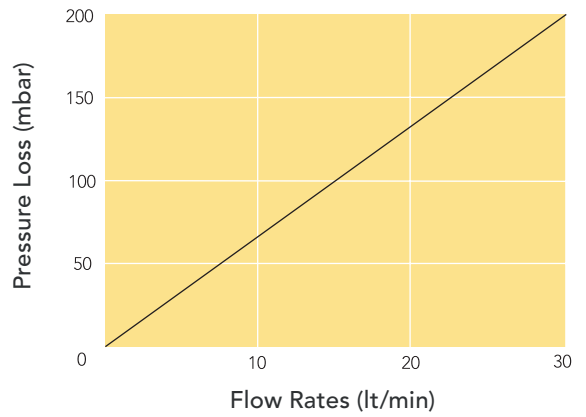
Temperature: Standard Unit: 70°C  
High Temperature Unit: 99°C  
Maximum dP: 2Bar

Recommended Maximum Inlet Contamination Level: 500mg/l

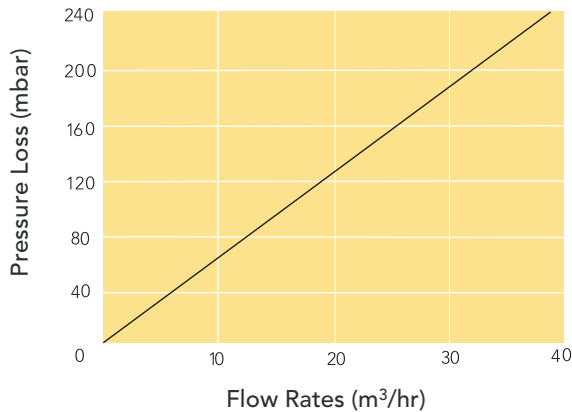
## UK Offshore Chemical Notification Scheme

Category: 0 (Zero)

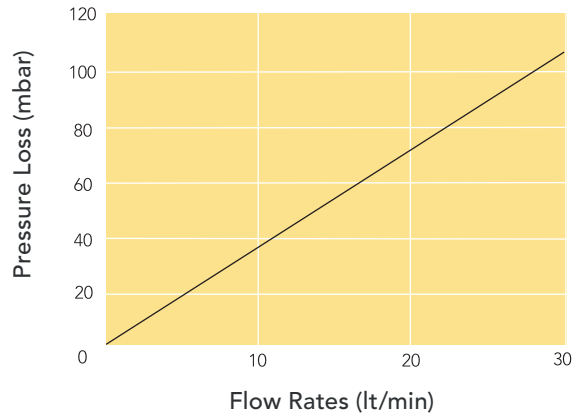
Flow Rates For Water (10" Element)



Flow Rates For Water (HFC 60" Element)



Flow Rates For Water (B-Blue 10" Element)



## Ordering Guide

13OAS -	20	7	E	P	BB
Media	Length	Connections	Seal	Branding	Options
13OAS - Oil Absorber Standard 13OAH - Oil Absorber High Temperature	09 - 251mm 20 - 508 30 - 762 40 - 1016 60 - 1524	0 - DOE 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 C - HFC -SOE	B - Buna E - EPDM S - Silicone V - Viton	P - Plain	BB - B-Blue HFC

Example: 13OAS-207EP = Oil absorber standard, 20" (508mm) long, Code 7 connections with EPDM Seal.

# AMAZON FILTERS LTD.

Albany Estate, Camberley, Surrey, GU16 7PG, ENGLAND

Tel: +44 (0) 1276 670 600 Email: sales@amazonfilters.co.uk Web: www.amazonfilters.com

SupaSorb is a trademark of Amazon Filters Ltd.

AMAZON FILTERS LTD. reserve the right to change specification without prior notice, as part of their continuous product development programme.