

OC-1 
FILTRATION MEDIA

Certikin

FEATURES

- Out performs traditional filter media
- Increased debris retention
- Decreased head loss
- Potential energy savings
- Lightweight
- Suitable for all applications
- Independently tested by the IFTS

OC-1: The Future Of Swimming Pool Filtration (2017)





OC-1 Filtration Media

Unlike traditional methods that use entrapment, OC-1 works through settlement which means that the debris settles within the cells of OC-1 throughout the entire bed rather than being trapped on top of the media.

This British manufactured filtration media has some exceptional benefits - by replacing commonly used media (such as sand and glass) with OC-1 it is possible to reduce the head loss in the filtration system and filter with a constant flow regardless of debris retention.

High quality filtration

OC-1 has been proven to efficiently reduce the turbidity of pool water and retain particulate without increasing the pressure within the filter or reducing the flow. The debris capacity of OC-1 is more than 20 times that of sand or glass. OC-1 removes 81% of 10 micron particles in a single pass and can even remove particles as small as one micron without flocculation or coagulation.

Lightweight

Unlike sand, gravel and glass, OC-1 is lightweight so easy to handle and transport. This is a huge advantage in terms of manual handling requirements, ease of installation and logistics.

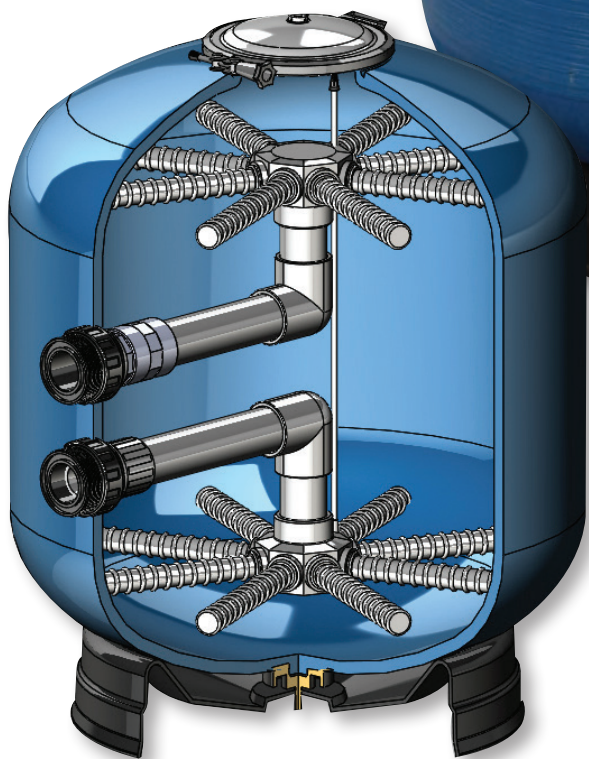
OC-1 is supplied in 50 litre bags that each weigh approximately 9kg and have the equivalent volume of three 25kg bags of sand.

Reduces pool running costs

OC-1 can reduce energy usage and water consumption. The open cell formation makes it possible to achieve a greater flow of water through the filter. In many cases this means that pump speeds can be reduced by around 20%, without compromising the original flow, producing impressive energy savings. Alternatively, on new installations a smaller pump can be specified to produce the same flow – saving running costs and initial outlay. Due to its constant flow rate and huge debris capacity, OC-1 can reduce backwashing frequency and water consumption.

New Installations

For new installations the OC-1 Filter is the obvious choice. Supplied complete with the OC-1 Media it is specially design to work in perfect harmony with OC-1 and compliment the amazing advantages OC-1 can provide. The OC-1 Filter range covers all applications from small domestic to the largest commercial installations.



OC-1 Domestic Filter

Commercial Pools

OC-1 Media really excels in the commercial sector. Potential savings in running costs come from the ability to reduce pump speeds & reduce backwashing. Add to that the advantage for new installations of the filter arriving with the media already installed and you can see that OC-1 is the obvious choice for the commercial application.

Existing Installations

OC-1 Filtration Media is suitable for use on all pools & spas be they domestic, commercial or hydrotherapy. It is simple to convert an existing sand filter for use with OC-1 and take advantage of its benefits over traditional media such as sand or glass. Further details of the conversion can be found on our website.

www.oc-1filtrationmedia.com



Tested to European Standards

The European Standard for Swimming Pool Filtration Medias EN16713-1 is the benchmark for any filtration media in Europe

OC-1 has been independently tested to EN16713-1 by the IFTS (Institut de la Filtration et des Techniques Séparatives). It passed all tests with flying colours and indeed surpassed certain tests to levels not seen before by the IFTS. The test results can be viewed in more detail on our website.

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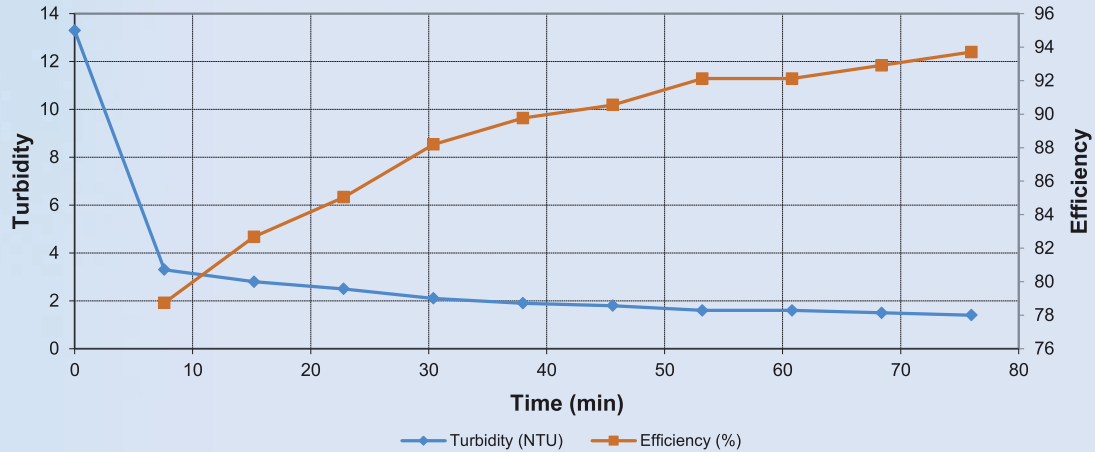
“ OC-1 Media is the first swimming pool filter media to combine excellent filtration efficiency with no loss of flow.”



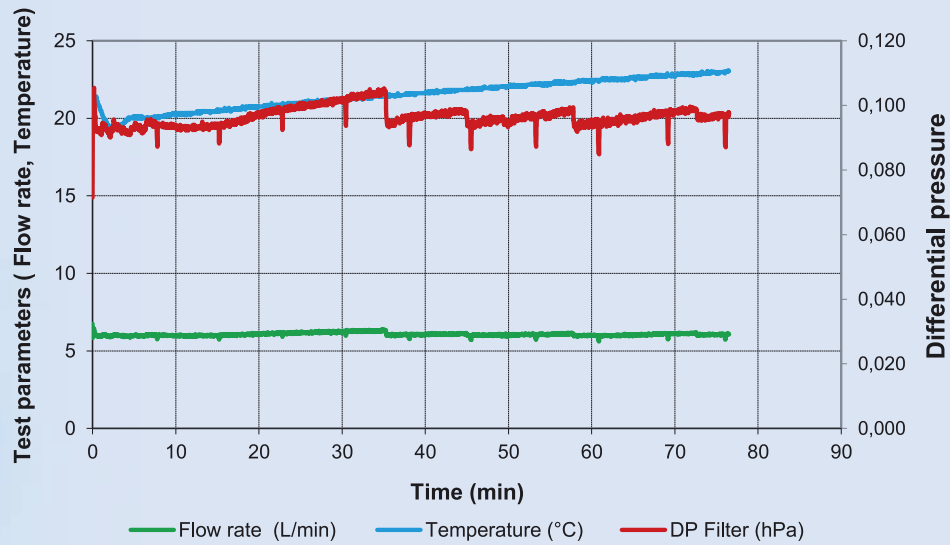
Test 1 is a Turbidity Reduction efficiency test

The European Standard states that a minimum reduction in turbidity of 50% must be achieved in this test.

OC-1 Media has a turbidity reduction efficiency of 93.7% after 20 cycles.



Turbidity vs. Time



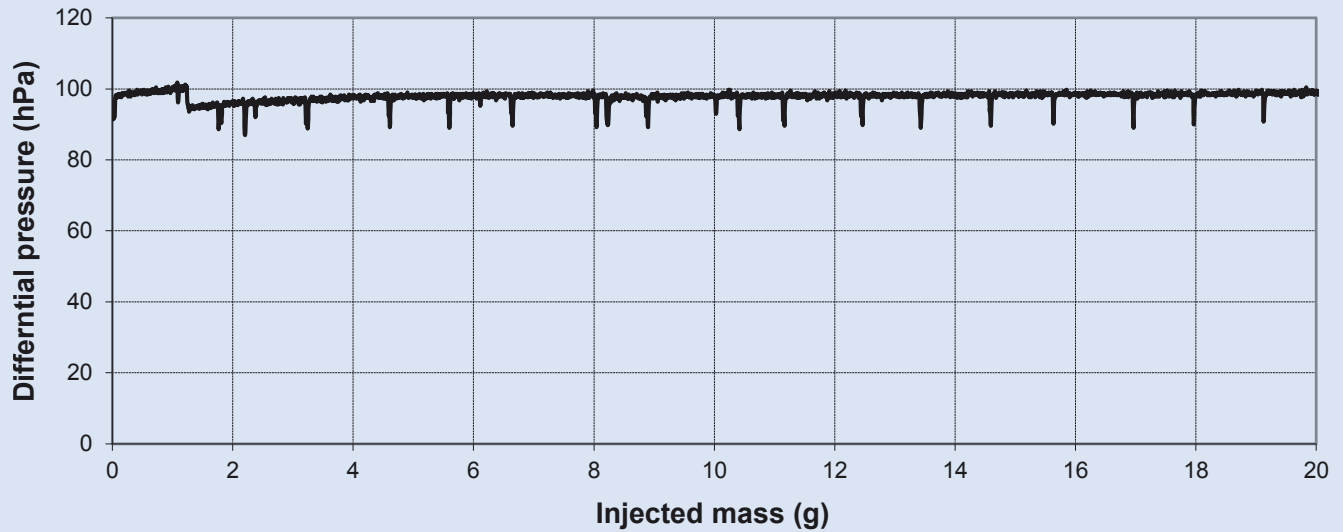
Test parameters

Test 2 is a simplified Retention Capacity test

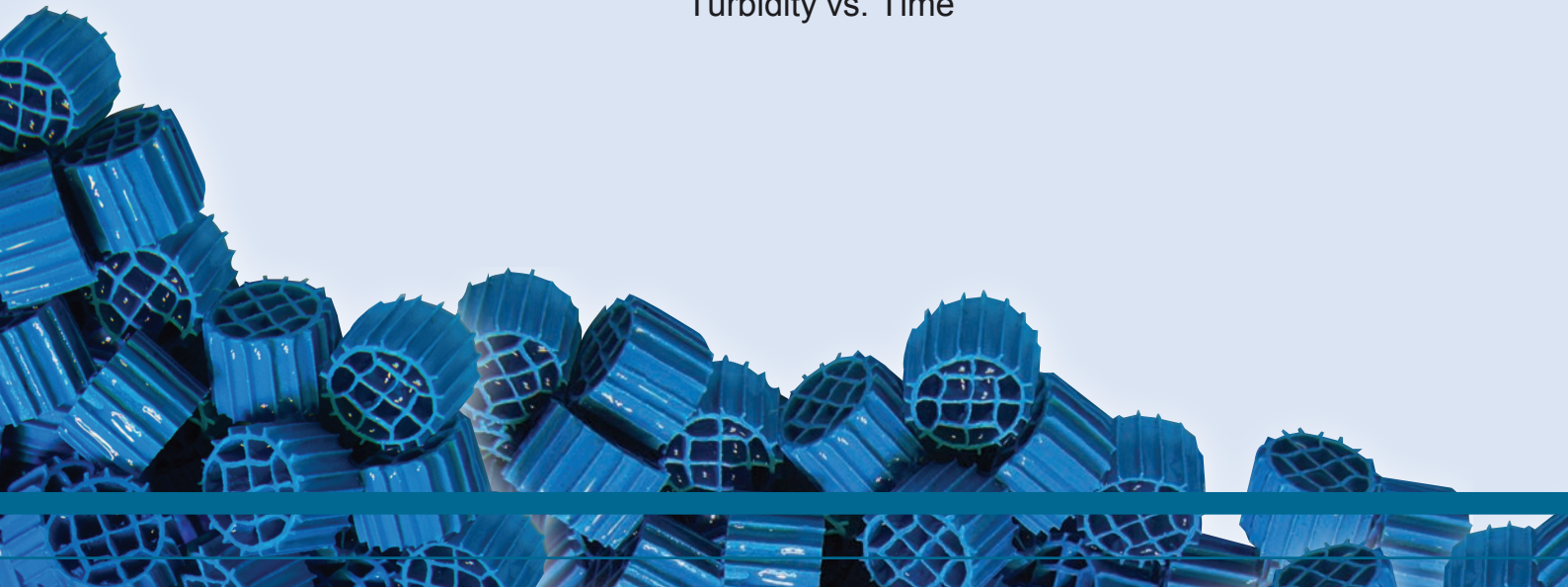
This test measures the amount of test dust retained by the filter media.

OC-1 Media has a retention efficiency of 96.1%.

(i.e. OC-1 Media retained 96.1% of the test dust introduced to the test fluid).



Turbidity vs. Time

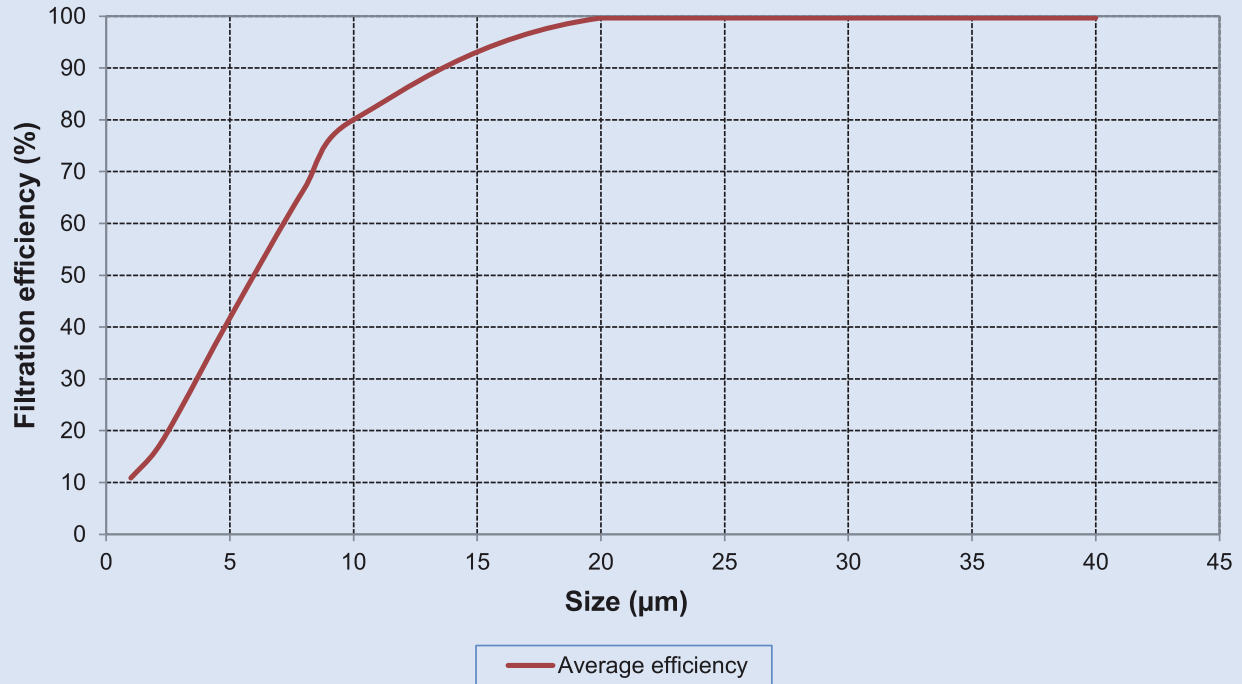


Test 3 is a Particulate Retention Efficiency and Retention Capacity test

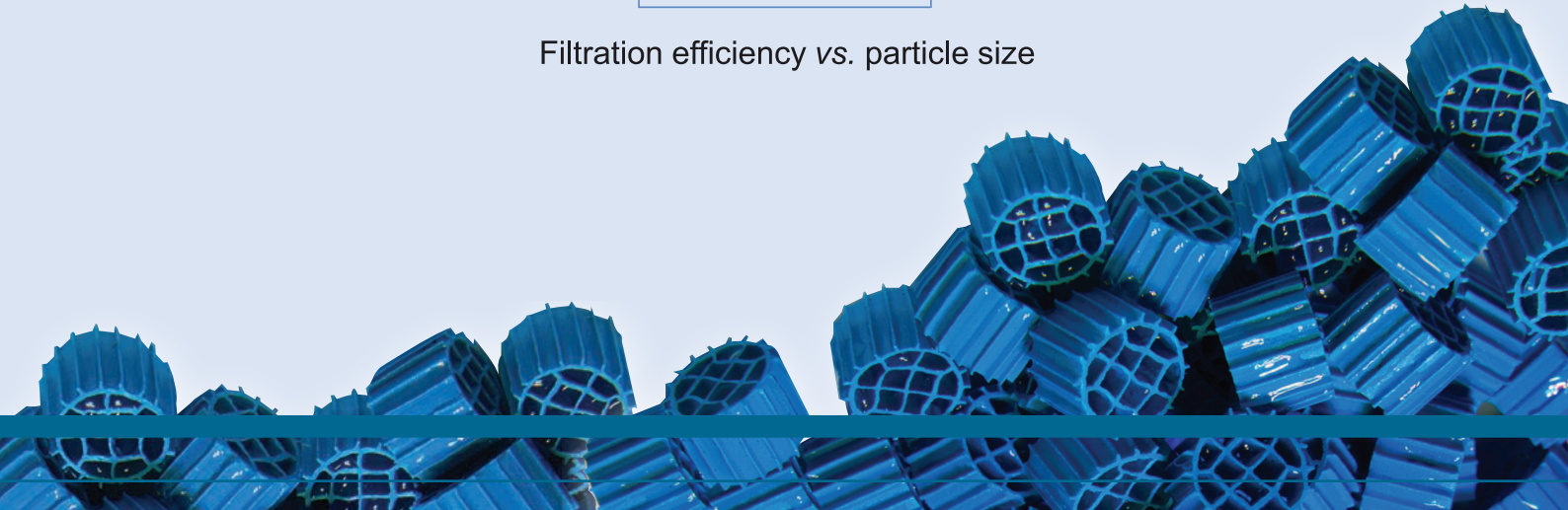
The aim of this test is to define the efficiency with which particles of specified size are removed by the filter in one pass.

The retention capacity of OC-1 Media was not reached during this testing.

The test ended because IFTS only allocate 8 hours maximum for this test.



Filtration efficiency vs. particle size



OC-1 IN ACTION

Riddings Municipal Pool, UK

WITH OC-1	WITH SAND	BACKWASHING ONCE PER WEEK	BOTH PUMPS NEEDED TO CLEAN 1 FILTER	THIS USED 10,000 LITRES PER WEEK = 520,000 LITRES PER YEAR	96,360KW ENERGY USED PER YEAR
		NOW BACKWASHING ONCE EVERY 3 WEEKS	1 PUMP WILL CLEAN 1 FILTER	NOW USING 85,000 LITRES PER YEAR - SAVING 435,000 LITRES	NOW USING 33,051KW PER YEAR - SAVING 63,309KW PER YEAR



“OC-1 is effective and efficient. The pool water quality is superb.”

“Clients are reporting that the water feels better. This is from people who don’t know the filter has changed.”



Willoughby Leisure Centre, Australia

	STATUS	SAND MEDIA	OC-1 MEDIA	COMMENTS
MAIN POOL	OPERATIONAL FLOW	SAME	SAME	TURNOVER UNCHANGED
	PUMP SPEED	50Hz	42Hz	SAVING APPROXIMATELY 70,000kW (AUD\$14,000)
	BACKWASH VOLUME	1,400,000 LITRES PER YEAR	360,000 LITRE PER YEAR	SAVING OVER 1,000,000 LITRES OF TREATED/HEATED WATER PER YEAR
SPA POOL	OPERATIONAL FLOW	51 M ³ /HR	64 M ³ /HR	INCREASED FLOW BY 20%
	BACKWASH FREQUENCY	ONCE PER WEEK	ONCE PER MONTH	BACKWASHING FREQUENCY REDUCED
	BACKWASH VOLUME	4,500 LITRES	2,300 LITRES	SAVES OVER 200,000 LITRES OF WATER PER YEAR
	TEMPERATURE LOSS OVER BACKWASH	15.5°C (28°F)	2.2°C (4°F)	TEMPERATURE LOSS REDUCED PER BACKWASH LIMITING DOWNTIME

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Contact your Certikin stockist for prices and availability.

This literature is intended as a guide.
The company reserves the right to change the specifications without notice.