

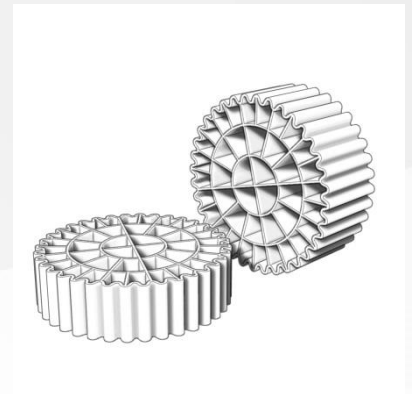


# SAGM

## **SAGM (suspended attached growth media )**

is a fill media or carrier, suitable for suspended attached growth water treatment systems.

This popular technology is possibly the best solution for the reduction of installations volume or to increase existing water treatment plants capacity with little and affordable layout changes.



### **Design**

It's a small cylindrical carrier, whose design has been specifically studied to maximize and to protect the useful surface for the biofilm growth.

SAGM 650 and 800 are made in virgin polyethylene high density, so with a specific weight slightly inferior to the one of water in order to allow their suspension.

### **Principal Advantages:**

The principal advantages deriving from the use of this type of technology, if compared with traditional activated sludge systems, are:

- ❖ High Percentage of Biomass in contact with wastewater ;
- ❖ The biological Process is very fast, this brings to a reduction both of the contact time and plant sizes, and consequently to an economical gain;
- ❖ The process is practically not influenced by the suspended solids presence;
- ❖ The process is practically not sensitive to the inlet wastewater temperature variations;
- ❖ Plant reaches quickly after start up the full efficiency;
- ❖ Elevated flexibility, in fact there are no particular limitations due to the basin shape.

Furthermore, compared to fixed bed systems, there are no clogging media problems.

The process can also be divided into two sequential reactors in order to maximize the treatment efficiency.



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## Rough Material Characteristics:

Polymers used for this media comply with the most restrictive standards and with drinking water plans.

### Virgin PEHD

Specific Weight 0,96 kg/dm<sup>3</sup>

Color White

Model	Height	External Diameter	Total Surface	Protected Surface
SAGM 800	7 mm	25 mm	800 m <sup>2</sup> /m <sup>3</sup>	640 m <sup>2</sup> /m <sup>3</sup>
SAGM 650	10 mm	25 mm	650 m <sup>2</sup> /m <sup>3</sup>	520 m <sup>2</sup> /m <sup>3</sup>

