

SAATIMOTION MLM

Multi Layer Media for AdBlue filtration

Liquid-particle separation applications in the automotive field are more and more often requiring innovative filter medias characterized by high filtration efficiency and high particle retention capability. Among all one of the most demanding one in terms of filtration efficiency and DHC is AdBlue filtration in SCR systems.

SCR systems are very sensitive to contamination (small particles could affect the porosity of the catalyst) and poisoning (some chemicals could destroy the chemistry of the catalyst making it ineffective), for this reason also the additive used has to be very pure and clean. In order to match the requirements the system has to be provide by a dedicated filter system which could protect all the relevant system component (feed pump, dosing unit and injectors).

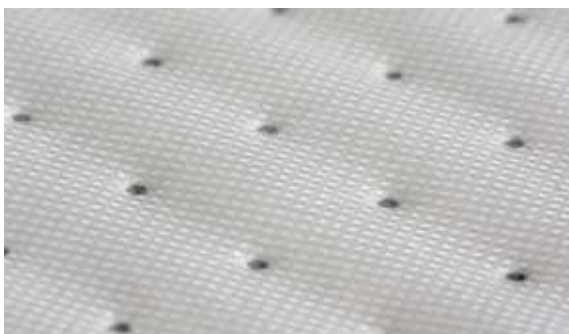
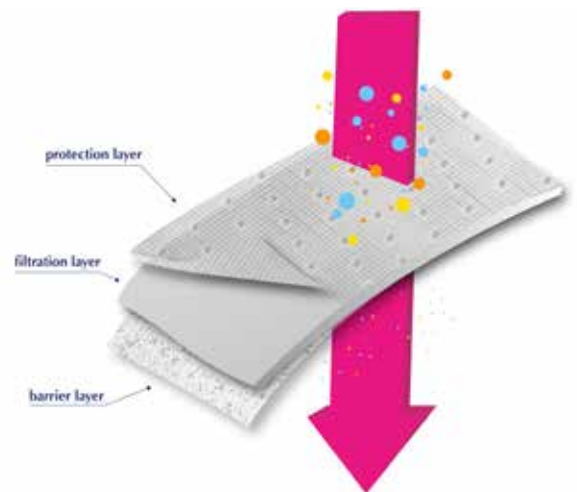
Saati has developed a dedicated filter media for this application composed by a multi layer system bonded together with a lamination technology that combine high bonding strength with a small loss of filtration surface/capacity.

The filter media is constituted by three layers:

1. Woven mesh for protection enhancement.
2. Thick non woven layer for depth filtration.
3. Thin non woven layer as barrier.

Benefits:

1. High filtration efficiency: increased protection.
2. High particle retention: improved capacity and lifetime duration
3. High stiffness: woven mesh layer grants excellent mechanical properties and an improved workability.

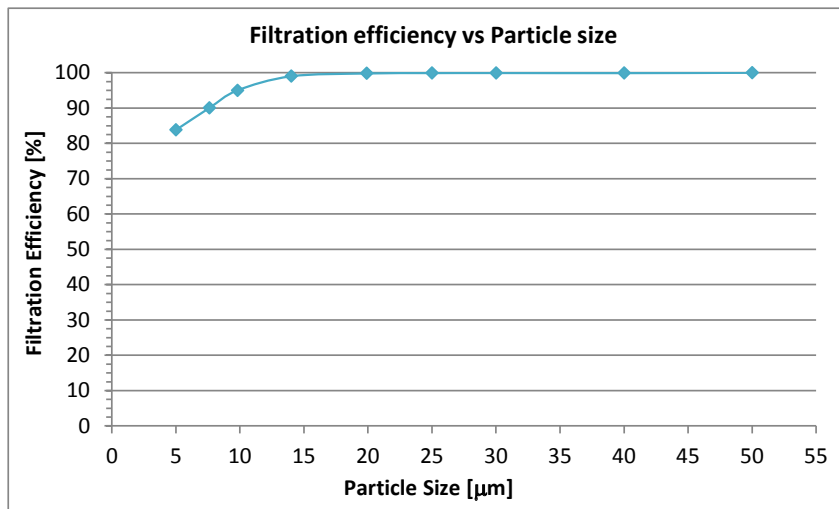


Saati filters represent an innovative and reliable choice in the production of automotive filters. They offer predictable particle removal, excellent resistance to AdBlue and other chemicals (such as fuels) and high efficiency. The long-life performance and precise characteristics of Saatimotion filter media perfectly match with the requirements of modern automotive industry.

SAATIMOTION MLM 20-300-400	
Material	PA 66
Woven mesh pore size* [μm]	300
Woven mesh open area* [%]	46
Thickness [μm]	1650
Weight [g/m ²]	484
Filtration efficiency	see the plot below
Dust Holding Capacity [g/m ²]	400
Air permeability [l/m ² s]	140

The listed technical specifications are referred to the arithmetic mean value of production samples and are subject to change without any notification, in accordance with our policy of continuously improving our products.

* Support layer could be chosen and customized upon specific needs.



AdBlue resistance tested according to IFTS internal procedure (report available upon request)

Tested by the certified Laboratory IFTS (report available upon request):

- SAE J 905 (capacity and pressure drop), SAE J1985 (efficiency), ISO 16232 (fiber release test).

Addresses

SAATI S.p.A - Headquarters
 Via Milano 14
 22070 Appiano Gentile (Co)
 Italy
 T: +39 031 9711
 F: +39 031 933392
 Email: info.IT@saati.com
 Website: www.saati.com

SAATI AMERICAS CORP.
 201 Fairview Street Extension
 SC 29644 Fountain Inn
 USA
 T: +1 (864) 601 8300

SAATI DEUTSCHLAND GmbH
 Ostring 22
 46348 Raesfeld
 Germany
 T: +49 2865 95800

SAATI TECHNICAL FABRIC (TIANJIN) CO., LTD.
 Cross of Saida 2nd Branch Road and Saida Century
 Avenue,
 Xiqing Economic Development Area,
 300385, Tianjin
 P.R.C
 T: +86 22 23960843

Company Profile

SAATI s.p.a is a leader in the development, production and commercialization of high-tech precision monofilament and multifilament fabrics for advanced industrial application in several business segment.

SAATI –Filtration specializes in the production of technical fabrics and components in polyamide, polyester and polypropylene, with special finishing treatments.

The products are used in a wide range of different filtration fields, such as automotive, water, medical industries, acoustic, appliance sectors, milling, along with many other industrial applications.