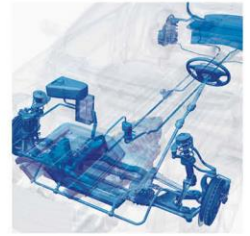


Automotive Industry

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Automotive

Product Portfolio



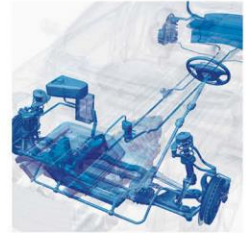
Edgar De la Cruz

Automotive | Filtration Solutions



Automotive

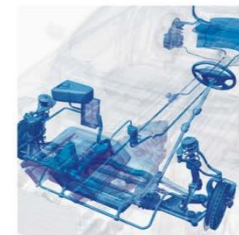
Topics



- **Fuel Filtration**
- **Diesel water separation**
- **AdBlue® Filtration**
- **Transmission**
- **ABS/ESP**

Fuel Filtration

SEFAR ACCUFLOW® for Fuel Pump Filters



Characteristic

- Multilayer filter US-bonded
 - Woven protection mesh
 - Filtration media
 - Barrier Fleece
- Defined Particle Efficiency
- @ 95 %: 30 and 60 µm
- High capacity
- Low pressure drop
- Life time filter

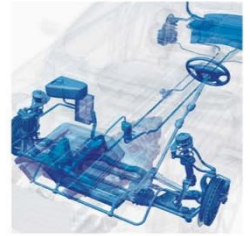


Norm/Test

Particle efficiency	According to SAE J 1985
Dirt holding capacity	According to SAE J 905
Pressure drop	According to SAE J 905
Ownership of a test bench	

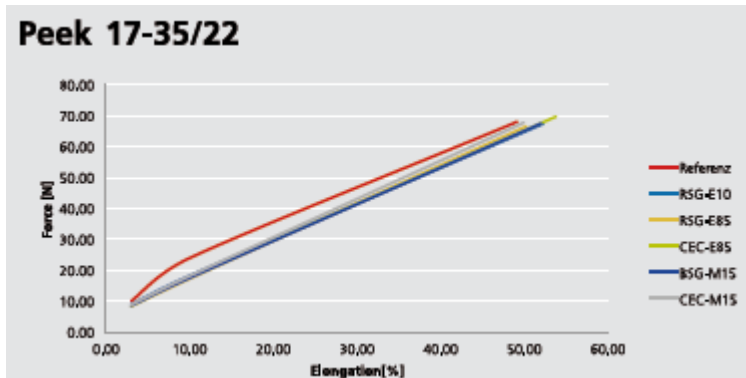
Fuel Filtration

Fuel Injection



Characteristic

- Monofilament fabric in PA and PEEK
Mesh opening 20 – 40 μm
- Open Mesh fabric with high open area for a low pressure drop.
- PEEK is resistant to all kind of fuels and the required temperature.

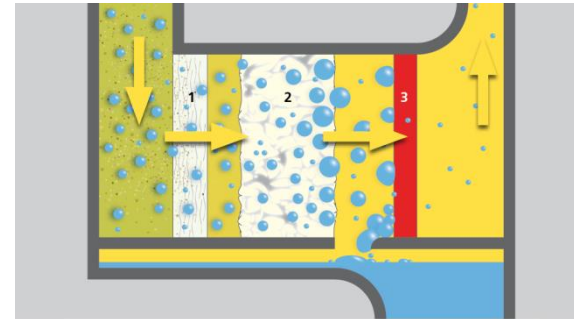


Diesel water separation

Coalescing

Characteristic:

- Multilayer Viscose PET material
- US-bonded
- Enlarge the small water bubbles to bigger water bubbles.

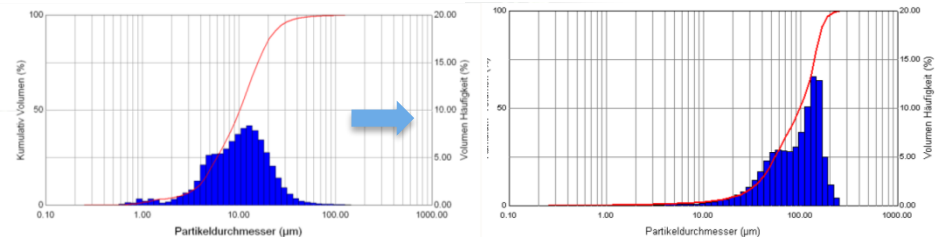


Filtration system schematic

- Fuel
- Water/Water drops
- 1 Dirt particle filter (pleated filter element)
- 2 Coalescing filter (enlarge water drops)
- 3 Hydrophobic filter

Test

- Own Sefar testbench according to ISO TS 16332.



S E F A R

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Diesel water separation

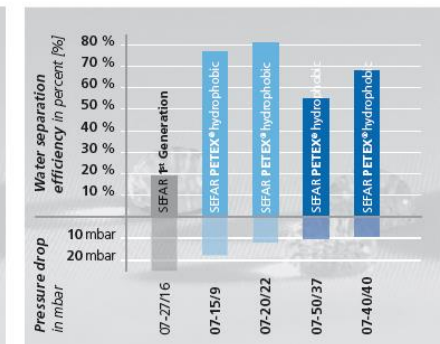
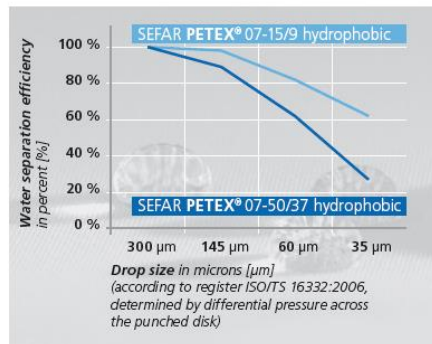
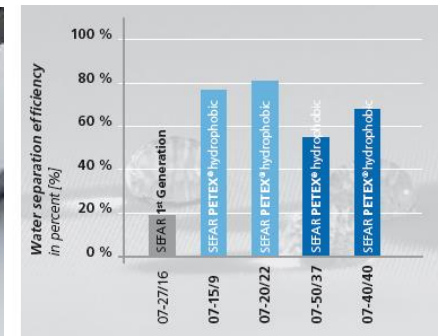
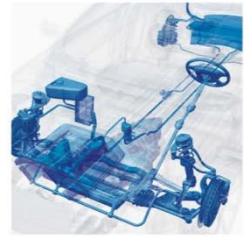
Separation

Characteristic:

- Hydrophobic coated Open PET Mesh, Mesh opening from 15 – 50 μm .
- Remove the water after the coalescing step from the Diesel.

Test

- Own Sefar testbench according to ISO TS 16332.



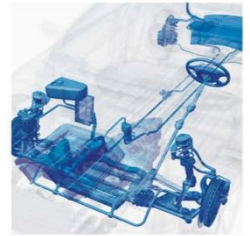
AdBlue® Filtration

Characteristic:

- Specific SEFAR® ACCUFLOW products in Polyamide (resistant to AdBlue®)
- Efficiency range:
95 % @ 10 – 30 µm
- Capacity range:
150 – 600 g/m²

Test parameters:

- Test fluid: Water, temperature: 23 °C
- Test dust: Specified according to ISO 12103-A2 and ISO 12103-A4
- Alternance of two periods at two concentrations:
- A first one of 30' at 5 mg/l in terms of BUGL and a second one of 400 mg/L in terms of BUGL
- On line counting during the 30'period at 5 mg/l up and downstream the filter media to quantify the filtration efficiency.
- Test housing: Flat sheet of 95 cm² of filtration area (inner circle of 11 cm)
- Test flow rate: 10 l/h
- Single-pass circulation
- Final ΔP = initial ΔP + 100 hPa (0.1bar)

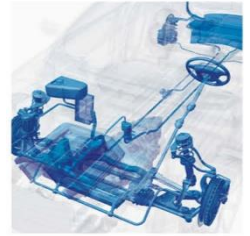


Transmission

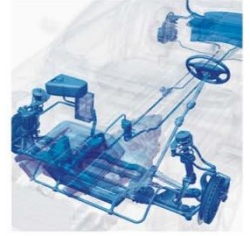
Automatic gear oil filtration

Characteristic:

- Openmesh fabric with 40 and 73 μm mesh opening in combination of customs specific needle felt.
- Openmesh fabric for pleated elements in combination with customs specific nonwoven.
- Sefar offer customized fabricated parts on customer requirements.



Brake and Steering Systems

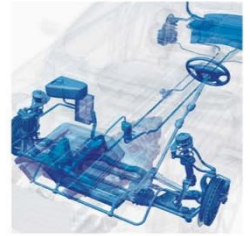


Characteristic:

- Wide range of monofilament fabrics
- Available in polyester, polyamide and PEEK
- Pore sizes from 40 to 200 μm
- Open areas up to 70 %
- Optimal chemical and thermal resistance for longlasting durability
- Low pressure drop resistance for longer durability
- Custom specific colours possible

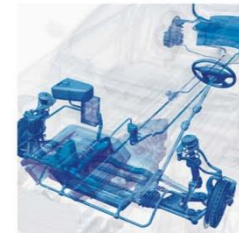


Sefar Ultrasonic Calender



- Ultrasonic Calender specifics for Sefar AG
- Max. 3 layers
- Production width 750 mm
- Specific Sefar Bonding design, 16 mm distance
- Electronic controlled position of the sonotrode
- 100 % controlling of the bonding holes => no burn troughs





Thank you for your attention!