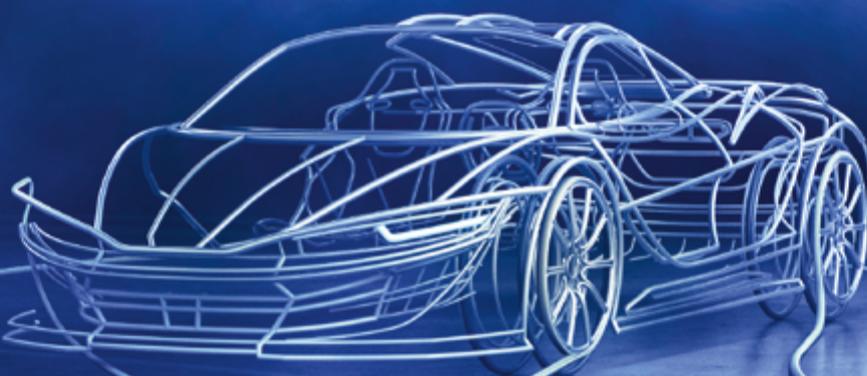


INNOVATIVE
MEDIA SOLUTIONS

FORMULA UFI



www.ufifilters.com

A WINNING GROUP



A SUCCESS STORY SINCE 1971

Universal Filter Italiana, now UFI Filters, was founded in Nogarole Rocca, in Italy, in 1971 as a supplier of filtration systems for the automotive market.

Some 10 years later, the Sofima brand was created to grow the distribution potential in the Italian aftermarket. At the same time, the company began working with the most important Formula 1 teams, becoming a supplier of specific, tailor-made solutions guaranteeing top performance and taking the teams to the top of the championships.

In the 1990s, thanks to the vision and growth goals of its owners, UFI Filters began to expand its boundaries into new product development and new world markets. In 1992, UFI Hydraulic Division was established, starting production of filtration solutions for the hydraulic sector. In 1996, being the first European filtration company to enter the Chinese market, UFI opened the first of its now six plants in China.

The late '90s was a time of notable growth, with the company winning over car manufacturers with fuel filters that guaranteed the separation of water from diesel.

At the start of the new millennium, UFI Filters became a supplier to the demanding German car manufacturers, providing not only fuel but also oil and air modules, and thus reinforcing its reputation as a global Original Equipment supplier to the world's leading car manufacturers. In 2010, UFI entered the world of heat exchangers, specialising in the design,

development and production of vacuum-brazed aluminium water-cooled heat exchangers. Today, 6 of the 7 biggest automotive groups in the world work with UFI to develop complete filtration and lubrication systems.

The results obtained by the company can be attributed to the constant investment in research and development (over 5% of turnover), allowing UFI to come up with innovative, exclusive solutions for its customers. Over the years, UFI has registered more than 200 patents.

The UFI Innovation Centers in Italy, India and China are equipped with sophisticated, advanced research and analysis tools for developing new products and filtration materials. UFI Filters now has over 4000 employees at 19 production sites, 3 innovation centers and 56 commercial offices.

Thanks to its Innovation centers and its wide experience, UFI Filters has developed different types of high performing media with specific Formulas, being the first in the market to introduce the synthetic fibres in fuel filters.

The company counts now six types of FormulaUFI:

- FormulaUFI.Extreme**
- FormulaUFI.Stratiflex**
- FormulaUFI.Micron**
- FormulaUFI.Web**
- FormulaUFI.H2O**
- FormulaUFI.Cell**

THE GROUP BY NUMBERS



Founded in 1971, it's now a world leader in filtration technology and thermal management.

1971



10 application sectors: from automotive (LV/HD), industry and hydraulics to special applications.

10



19 production plants and over 4,000 employees in 19 countries worldwide.

4.000



Present everywhere, from F1 cars to the ExoMars spacecraft.

F1



95% of vehicle manufacturers worldwide choose UFI Filters.

95%



168 specialised technicians in the innovation and development centers in Italy and China.

168



>250 patents at international level.

>250



5% of turnover reinvested in R&D.

5%



6 lines of filters supplied: air, oil, fuel, cabin air, hydraulics and transmission.

6



>250 co-branded products with the biggest OEM's.

>250

FORMULA UFI.EXTREME

EXTREME PERFORMANCES FOR VERY TOUGH CONDITIONS

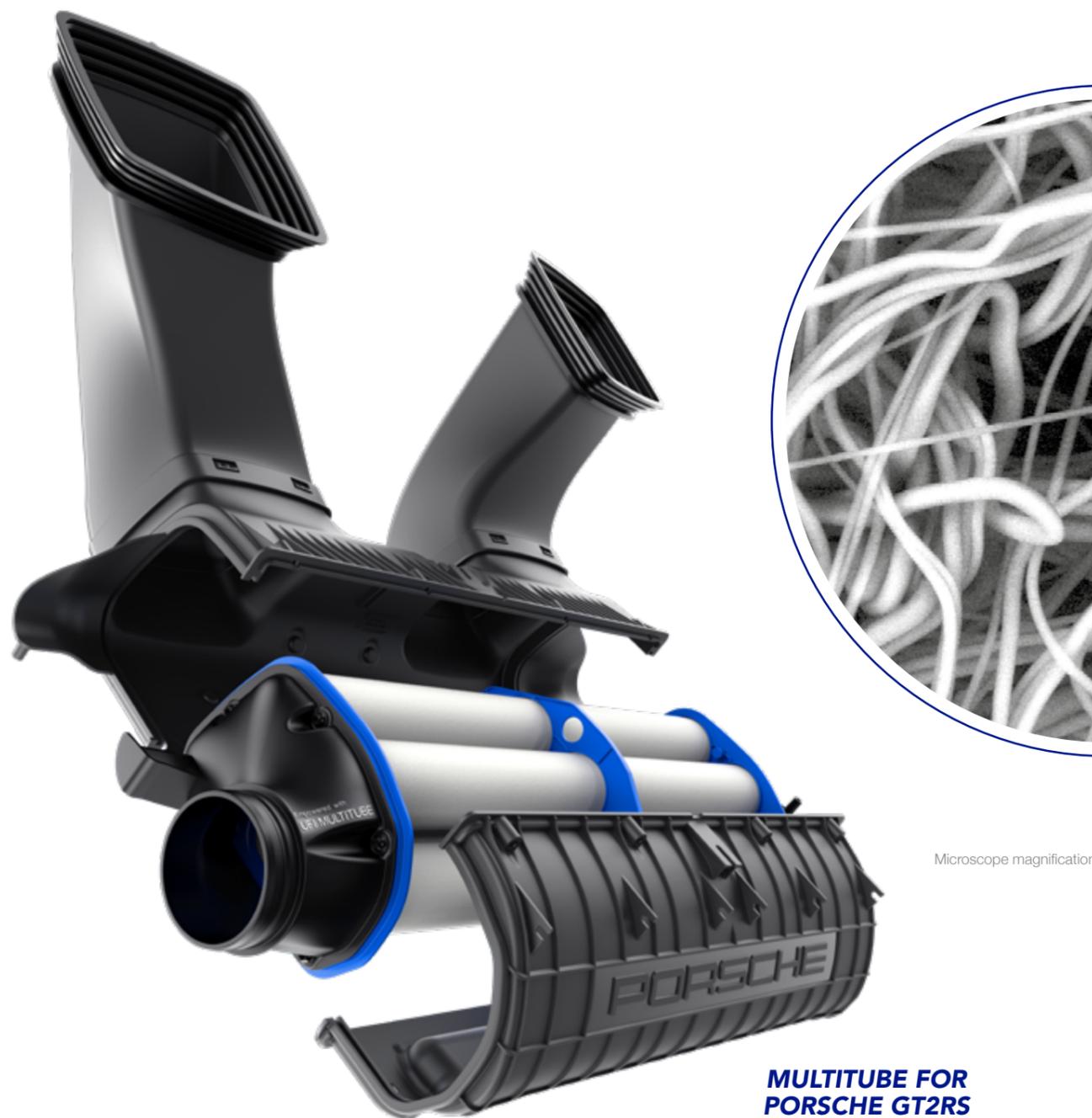
DESCRIPTION

FormulaUFI.Extreme, that is used for example in the Multitube for Porsche GT2RS and in the Great Wall Motor DHT side mounted AIS, is based on synthetic fibres to maximise the filter life, to reduce pressure drop in case of engine oil, to maximise filter efficiency up to 99,5% at 4 micron(c) in case of the presence of fuel. Filter efficiency is related to fibre size and distribution: fibre dimension, distribution and other parameters vary in order to optimize the performance for each specific application.

UFI has been a pioneer in the development of the FormulaUFI.Extreme.

APPLICATIONS

MULTITUBE
FUEL FILTRATION
AIR FILTRATION
OIL FILTRATION
HEPA
FACE MASK
HYDRAULIC



Microscope magnification

MULTITUBE FOR
PORSCHE GT2RS

A WIDE RANGE OF TAILOR-MADE SOLUTIONS

PLUS - MULTITUBE

- + **Increased power:** up to 4% more horsepower.
- + **High filtration efficiency over 99,5%**
- + **Water resistance and water separation.**
- + **Improved geometrical flexibility** and filter downsizing.

PLUS - FUEL MEDIA

- + **Best performances** for constrained volumes.
- + **Full compatibility** with biodiesel.
- + **High water separation performances,** in particular when used in combination with other layers.
- + **Filter efficiency and life are better** than traditional media.

FORMULA UFI . STRATIFLEX

EVOLUTION OF PERFORMANCE BY FLEXIBLE COMBINATION OF MEDIA

DESCRIPTION

FormulaUFI. StratiFlex, that is used for example in the Deep Filtration Media Alfa Stelvio fuel filter and in the Nissan CFM1 diesel filter, is a combination of different layers (i.e. cellulose, glass fibres and hydrophobic barrier) and it's one of the most revolutionary Formulas that UFI Group has developed in the years.

The combination of different materials guarantees the achievement of unique filtration efficiency together with a long filter life (oil StratiFlex media) and water separation from fuel (fuel StratiFlex media).

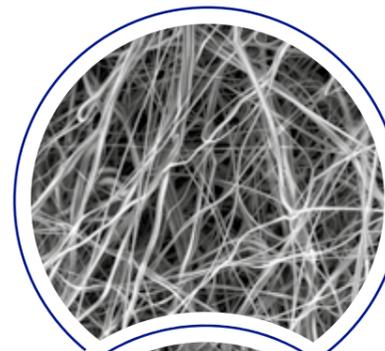
APPLICATIONS

FUEL FILTRATION
OIL FILTRATION
CABIN AIR FILTRATION
HYDRAULIC

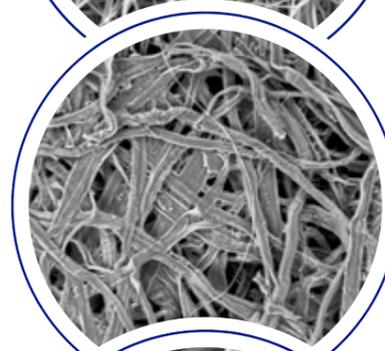


GEN 2 PLUS FUEL FILTER FOR ALFA STELVIO

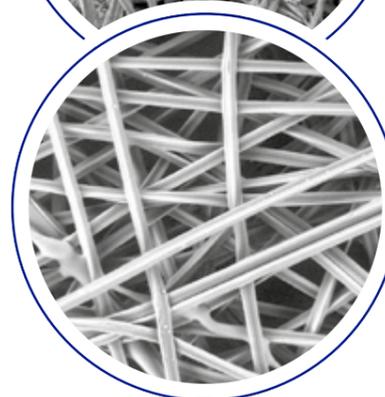
MELTBLOWN



CELLULOSE



SPUNBOND



Microscope magnification

DIFFERENT MATERIAL LAYERS COMBINATIONS ARE POSSIBLE

PLUS

- + UFI has been a pioneer in the development of StratiFlex.
- + StratiFlex fuel exploits the performances of the FormulaUFI.Extreme with the combination of different components in order to **achieve the highest water in diesel separation.**
- + **StratiFlex Oil represents the most efficient oil filter** on the market with a impressive **long life.**
- + **High customisation capacity.**
- + **High performance.**
- + **High filtration efficiency.**

FORMULA UFI.MICRON

HIGHEST FILTRATION PERFORMANCE, DOWN TO MICRONS

DESCRIPTION

FormulaUFI.Micron, that is used for example in wind power generation and industry applications and in many automotive applications such as in the Jaguar AJ133 oil filter, is based on glass fibres (sometimes mixed with synthetic fibres) to maximise the filter life, efficiency and reduce pressure drop. Filter efficiency is related to fibre sizes and distribution: very small fibres increase the filtration efficiency, while size gradient increases the life of the filter element.

APPLICATIONS

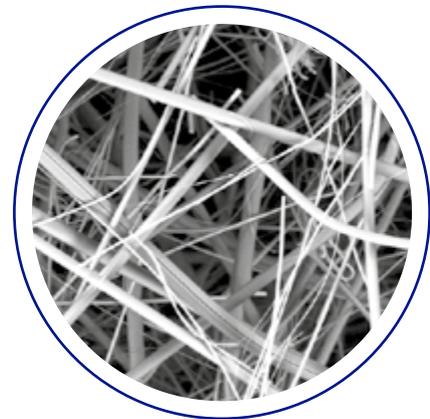
OIL FILTRATION
AIR FILTRATION (BLOW-BY)
HEPA
HYDRAULIC

PLUS

- + **High chemical stability** even in harsh conditions.
- + **Very stable** also in contact with water or fuels.
- + **Oleophobic treatments** are also present for air/oil separation when requested.
- + **Tailor made media** if required.



GRF SERIES WITH CORELESS IRF ELEMENT FOR WIND TURBINE



Microscope magnification

FORMULA UFI . WEB

THE METALLIC MESH TRAPPING IMPURITIES IN THE SYSTEM

DESCRIPTION

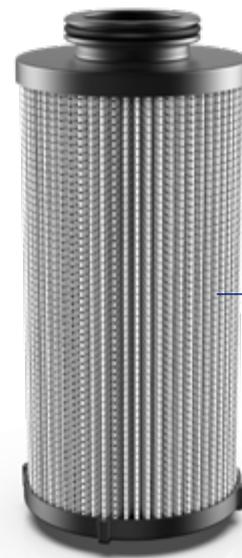
FormulaUFI.Web, that is used for example in the ZF Automatic Transmission Filter and in the Geely DHT pressure transmission filter, is based on stainless steel mesh having such characteristics of good strength, stability, wide range of fluids compatibility, high temperature resistance and extremely low pressure drop with high flow rates as required for the suction applications.

APPLICATIONS

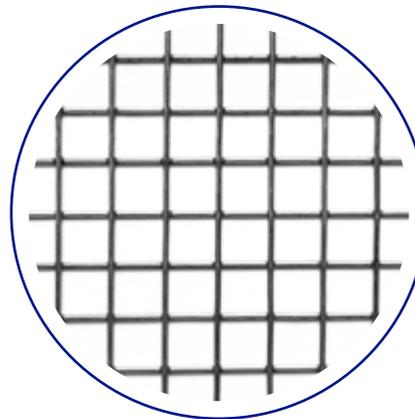
TRANSMISSION FILTERS
RACING
DEFENCE
HYDRAULIC

PLUS

- + **Very robust structure** and high level of heat, chemical, corrosion, abrasion, and differential pressure resistance.
- + **Geometrical structure:** precise and uniform surface area.
- + **Multiple construction layout** for multiple filtration rate requests.



ZF ECOLIFE AUTOMATIC
TRANSMISSION FILTER



Microscope magnification

FORMULA UFI.H2O

STOPS THE WATER: ABSORPTION OR SEPARATION

DESCRIPTION

FormulaUFI.H2O, that is used for for example in the Kamaz Euro4 fuel filter, in the Ford F-Max Euro 6 fuel filter and in many Volkswagen diesel filters, is based on cellulose fibres with synthetic or glass fibres inside to maximise the filter efficiency up to 99,5% at 4 micron(c), to improve dirt holding capacity and water separation.

APPLICATIONS

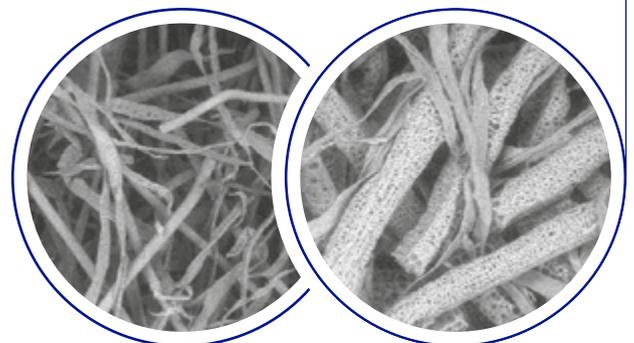
FUEL FILTRATION
HYDRAULIC

PLUS

- + **High water separation performances**, in particular when used in combination with other layers (Stratiflex Fuel).
- + **Always coupled with high quality meltblown** to increase filter life.
- + **Very high filtration efficiency.**



**FUEL FILTER FOR
KAMAZ EURO 4**



DRY

WET

Microscope magnification

FORMULA UFI.CELL

FROM NATURE, THE BASIC ELEMENT OF FILTRATION

DESCRIPTION

FormulaUFI.Cell, that is used for example in the oil module for MAN D15 and in the oil modules for Weichai H2, H3, H5, is based on cellulose fibres mixed with synthetic fibres or glass fibres to maximize the filter life and reduce pressure drop. The filter efficiencies is determined by the mix grade of cellulose and other fibres.

APPLICATIONS

AIR FILTRATION
OIL FILTRATION
PETROL FILTRATION
HYDRAULIC

PLUS

- + **Improved performances** in mechanical stability and filter life.
- + Treatments **for water resistance** both for Air and Oil media.
- + **High stiffness to retain stability** also during low temperature conditions (Cellulose Engine Oil Media).
- + **Flame retardant** at F1 class also for aftermarket.



**OIL MODULE FOR MAN TRUCK RY
WITH CORELESS ELEMENT**



Microscope magnification

FORMULA
UFI.EXTREME

EXTREME PERFORMANCES
FOR VERY TOUGH CONDITIONS

FORMULA
UFI.STRATIFLEX

EVOLUTION OF PERFORMANCE
BY FLEXIBLE COMBINATION OF MEDIA

FORMULA
UFI.MICRON

HIGHEST FILTRATION PERFORMANCE,
DOWN TO MICRONS

FORMULA
UFI.WEB

THE METALLIC MESH
TRAPPING IMPURITIES IN THE SYSTEM

FORMULA
UFI.H2O

STOPS THE WATER:
ABSORPTION OR SEPARATION

FORMULA
UFI.CELL

FROM NATURE, THE BASIC
ELEMENT OF FILTRATION

For further information
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Cod. 92.100.105

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