sefiso | FAUDI aviation

SENSORS, FILTRATION, SOLUTIONS

AVIATION

ABOUT US

PRECISION AND INNOVATION

In the course of the company's successful history, many new brands which operate in different markets have been founded and acquired on a global level. In order to further strengthen our collaboration with customers and partners, we have decided to integrate our brands into a new brand.

sefiso encompasses exactly what we stand for globally: Sensors, filtration and customised solutions around the clock.
sefiso makes it easier for us to better organise our corporate structures and perfectly reflect our products and services.

DIVISIONS

sefiso

- Aviation
  - sefiso FAUDI aviation
  - sefiso FAA DO BRASIL
  - sefiso AVFIL
  - sefiso FAUDI aviation AMERICAS
  - sefiso DISTRIBUTION
- Industrial
  - sefiso FAA Filters
  - sefiso INDUSTRIAL
- Digital
  - sefiso CONNECT
- Training
  - sefiso SAE

FACTS & FIGURES

1938

The company FAUDI Feinbau GmbH was founded by the engineer Fritz Faudi in Oberursel.

1997

FAUDI moves to Stadtallendorf. In the same year, the R&D center is buildt.

2003

Successfully completed a management buyout; Marcus Wildschütz acts as managing director for FAUDI Aviation.

2020

Founding of FAUDI Aviation Americas and entry into the U.S. market.

2024

After acquiring NAFCO in 2021, FAUDI Aviation Americas and the rebranded FAA Filters began producing aviation filters under the newly renamed sefiso LLC.

BUSINESS UNITS

AVIATION

We deliver the most innovative filtration and sensor solutions tailored to meet the evolving demands of the aviation fuel industry.
Our commitment to excellence is reflected in a comprehensive product portfolio that includes high-performance filter vessels, precision-engineered filter elements, and cutting-edge sensor technologies.
With a strong global network of trading partners and service providers, we are continuously expanding our international presence.

INDUSTRIAL

We offer advanced filtration and sensor solutions that boost efficiency, ensure fuel cleanliness, and protect critical systems. Our portfolio covers air, gas, liquid, and fuel filtration for industries including diesel, petrochemicals, manufacturing, and food processing.
With innovative monitoring technologies and proven expertise, we help customers simplify operations, reduce costs, and improve safety across demanding industrial environments.

TRAINING

We offer standardized training programs designed for aviation refuelling, fuel storage, and hydrant management.
These programs cover essential topics including product knowledge, technical specifications, and compliance with industry standards.
Our hands-on training is tailored to all operational levels, from frontline operations and management to specialized instruction using our into-plane training rig—ensuring personnel are fully equipped with the skills and knowledge needed.

DIGITAL

We integrate smart applications with advanced data management, analytics, service solutions, and scalable systems to drive modernization across industries. Our goal is to simplify operations and enhance efficiency for our customers through intelligent, connected technologies.
By offering comprehensive, cross-functional digital solutions, we enable seamless integration and real-time insights—supporting smarter decision-making and long-term operational success.

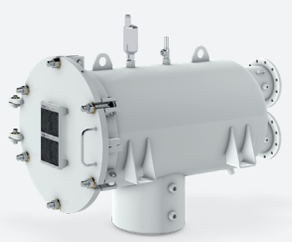
FILTER VESSELS

FILTER/WATER SEPARATOR

FAUDI Aviation filter/water separators are designed to be compliant with procedural guidelines, applicable legal regulations and requirements of the pressure vessel regulations (AD2000, ASME, and others).

Filter/water separators consist of two-stages designed to remove free water and particulates from aviation fuels at refineries, terminals, fuel depots, tankers, hydrant dispensers and other mobile refuelling equipment. Filter/water separators are intended for use in commercial aviation fuel (defined as category C), military aviation fuel (defined as category M) and military aviation fuel with an additive for thermal stability (defined as category M100).

FW24-H-T/HM-T Series



FW10-V Series

Other FWS Vessel Types:

- FW10-H-Series
- FW10-HM-Series
- FW10-H-T Series
- FW10-HM-T Series
- FW6 Series
- FW6-T Series
- FWE Series
- FWE-T Series
- FW9 Series
- VFH Series

MICROFILTER

Microfilters are used as pre-filters for the efficient and continuous removal of solids such as rust, sand and other particulates from aviation fuels. FAUDI Aviation microfilters are used in refineries, terminals and airport depots, primarily as prefilters to lengthen the service life of downstream coalescer elements in filter/water separators. FAUDI Aviation microfilters are highly efficient and thus cost effective due to their large filter surfaces area.

FAUDI Aviation Microfilter are designed to be compliant with procedural guidelines, applicable legal regulations and requirements of the pressure vessel regulations (AD2000, ASME, and others).

MF Series

VFH Series

DIRT DEFENCE FILTER VESSEL

Dirt Defence Filter Vessels are designed to be compliant with procedural guidelines, applicable legal regulations and requirements of the pressure vessel regulations (AD2000, ASME, and others).

DDFV Series

CLAY TREATER AND SIEVE BASKET STRAINER

Clay Treaters are designed to remove surface active agents (surfactants) from aviation fuels. Contaminants of this kind can be present in the fuel from refinery carry over or from cross-contamination in multi-product pipelines. Clay Treaters are usually installed in front of filter/water separators.

Screen Basket Filters are intended for use in aviation fuels for bulk filtration upstream of microfilters. A Screen Basket Filter consists of a perforated screen basket of carbon steel, stainless steel or other materials, depending on the fuels or gases to be filtered.

Clay Treater C Series

Sieve Basket Strainer SKF

FILTER ELEMENTS

COALESCERS

FAUDI Aviation supplies coalescer elements that are qualified to commercial and military specifications.

Coalescer elements are designed to coalesce free water and to remove fine solids from aviation fuels and other hydrocarbons. Coalescers are deployed at the first stage in a filter/water separator, when fuel enters the vessel. The elements are intended for use in filter/water separators on refuellers, hydrant dispensers, other mobile equipment and stationary refuelling equipment. Coalescer elements are also used in industrial applications, in fuel depots, refineries or barges, where high water removal efficiency plays a crucial role.

Qualification procedures: EI 1581 (latest Edition)
Flow direction: In-to-out
Service time (max.): 3 years[1)]
Storage time (max.): 5 years [1)]
Nominal filtration: According to EI 1581, latest Edition
Operating temperature range: -30°C to +80°C (-22° to 176°F)

[1)] Manufacturer recommendation

P-Type

P2-Type

T-Type

D-Type

MIL-Type

Other Coalescer Elements:

- MIL2-Type
- Y-Type
- K-Type
- CS-Type

SEPARATORS

FAUDI Aviation supplies separator elements that are qualified to commercial or military specifications.

Separator elements are used as the second stage of a high-performance separation in filter/water separators. After emergence from the coalescer, aviation fuels pass through the pores of the separator element while water droplets are repelled by the hydrophobic surface. Water droplets settle into the filter/water separator sump to be drained off.

FAUDI Aviation separator elements are available with a Teflon®-coated screen or synthetic mesh. Separator elements with a Teflon®-coated screen can be reused after a cleaning during coalescer element changeouts. Small areas of damage can be repaired. It is recommended that separator elements with a synthetic mesh are replaced during coalescer changeouts.

Qualification procedures: EI 1581 (latest Edition)
Flow direction: Out-to-in
Service time (max.): 10 years [1) 3)] / 3 years [2) 3)]
Storage time (max.): 5 years [3)]
Operating temperature range: -30°C to +80°C (-22° to 176°F)

[1)] Teflon®-coated mesh
[2)] Synthetic mesh
[3)] Manufacturer recommendation

60 Type

FW6/FW6-T Type

FWE/FWE-T Type

60-MIL Type

FDS Type

FILTER ELEMENTS

MICROFILTERS

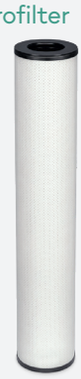
Microfilters are used as pre-filters for the efficient and continuous removal of solids such as rust, sand and other particulates from aviation fuels. FAUDI Aviation microfilters are used in refineries, terminals and airport depots, primarily as pre-filters to lengthen the service life of downstream coalescer elements in filter/water separators. FAUDI Aviation microfilters are highly efficient and thus cost effective due to their large filter surfaces area.

Qualification procedures: EI 1590 (latest Edition)
Flow direction: Out-to-in
Service time (max.): 5 years [1)]
Storage time (max.): 5 years [1)]
Operating temperature range: -30°C to +80°C (-22° to 176°F)

[1)] Manufacturer recommendation

4" EIMF Microfilter

6" EIMF Microfilter



4" Microfilter (Non-EI)

6" Microfilter (Non-EI)

DIRT DEFENCE FILTERS

Dirt Defence Filter (DDO) are designed for the efficient and continuous removal of solids such as rust, sand and other particulates from aviation fuels.

FAUDI Aviation DDO-Type filter elements are intended for use in filtration systems on mobile into-plane refueling. They are specially designed for retrofitting in filter monitor vessels. The Dirt Defence Filter shall be used in conjunction with an EI 1598 electronic water sensor, e.g. AFGUARD®.

Qualification procedures: EI 1599 (latest Edition)
Flow direction: Out-to-in
Service time (max.): 7 years [1)]
Storage time (max.): 5 years [1)]
Operating temperature range: -30°C to +80°C (-22° to 176°F)

[1)] Manufacturer recommendation

2" Dirt Defence Filter

6" Dirt Defence Filter

SENSOR, CONTROL & MONITORING

Pioneers in Fuel Condition Monitoring Technologies: We lead the development of innovative fuel condition monitoring, recording, and evaluation technologies. Our solutions simplify the handling of aviation fuels and the selection of filtration solutions, making them more economical and ultimately safer. Our extensive portfolio includes Electronic Water Sensors, Logic Controllers, Differential Pressure Monitoring, Water Treatment Systems, and Fuel Quality Control & Monitoring.

Our Portfolio Includes:

Conductivity Measuring
Accurate measurement of fuel conductivity to ensure compliance and operational safety.

Differential Pressure Monitoring
Continuous monitoring of pressure differences to optimize filtration performance and system reliability.

Logic Controllers
Smart control units designed to automate and streamline fuel monitoring processes.

Particle Counting
High-precision detection of particulate contamination to maintain fuel purity.

Water Detection
Advanced sensing technologies for early identification of water presence in fuel systems.

RESEARCH & DEVLOPMENT

MAXIMISING EFFICIENCY, PERFORMANCE AND SUSTAINABILITY

Filters and sensors used in the handling of aviation fuels are subject to stringent international regulations and must be officially approved for their intended application. Therefore, prior to market launch, all sefiso Aviation products undergo comprehensive qualification testing under the supervision of industry experts, in accordance with the relevant specifications.
To support this, sefiso operates one of the most technologically advanced test rigs of its kind within its Research & Development department. The interconnected laboratories analyse raw materials, test new products under controlled conditions, and only release them for production and use once they have passed all qualification stages.

Manufacturers from related industries and military institutions also utilise the sefiso Aviation test rig to assess their own products under realistic conditions for qualification purposes.
The expertise of our Research & Development team is built on many years of experience with filter elements and the continuous evolution of our product portfolio. User-focused analysis and evaluation methods ensure cost-effective and efficient solutions across the entire range.
sefiso's innovative strength is reflected in the ongoing development of testing methods and application-oriented research – setting new standards in performance, safety and sustainability.

R&D facility in Germany

SUSTAINABILITY

At sefiso Aviation, we develop filter and sensor technologies that not only meet the highest safety and quality standards but also actively contribute to protecting our environment.
Our sustainability strategy is built on three core pillars: ecological, economic, and social. We focus on durable products and intelligent systems such as PerformanceBasedFilterLife™, which monitors the condition of filter systems and enables predictive maintenance.
By using recycled materials, reducing packaging and plastic, and harnessing renewable energy sources, we minimise our ecological footprint—from development through to application.
Our solutions support customers in operating more sustainably—for example, through long-lasting product combinations that help reduce hazardous waste.
Investments in advanced manufacturing technologies and the development of filtration solutions for alternative fuels highlight our commitment to a future-ready industry.
We create safe jobs and promote equal opportunities. Our team is composed of 63% men and 37% women. In addition, we are actively involved in social projects in the region, such as supporting the Kindertafel Stadtallendorf and providing traffic education for children.
Our processes are certified according to DIN EN ISO 9001:2015, demonstrating our consistent quality management in the development, production, and distribution of filtration and sensor technologies for hydrocarbons and other liquids.
For us, sustainability is not a trend, it is a promise. With innovation and responsibility, we work together with our partners to shape a future worth living.

The company headquarters are in Stadtallendorf, Germany.

Offices in Colorado Springs and Newark (USA), Dubai (UAE), Singapore (Asia) and São Paulo (Brazil) as well as Dublin (Ireland) and Milton Keyes (UK).

Production in Stadtallendorf (Germany) and Newark (USA).

Our global presence is constantly being expanded through a network of trading partners and service providers.

sefiso
Scharnhorststrasse 7B
D-35260 Stadtallendorf

Telefon: +49 6428 44652-570
E-Mail: contact@sefiso.com

www.sefiso.com