



AIRCRAFT, HELICOPTERS AND ENGINES Innovative Fuel Systems



Donaldson has Decades of Experience in Fuel Filtration

We offer complete system solutions for aircraft, helicopter and engine fuel filtration: replacement cartridge or spin-on filters, housings, clogging indicators, bypass valves, and visual or electrical bypass indicator systems.

We are an industry leader in fuel filtration for civilian and military helicopters. Our ice-tolerant filter is designed specifically for use in low-temperature environments — without the need for antifreeze or mechanical heating systems.



Main Engine Fuel Filter used on Tejas.

Fuel Filtration Products to Meet Your Needs

Donaldson engineers work continuously to design filters that meet the stringent specifications of today's engines and equipment. We employ the latest technologies to deliver reliable products with the best balance of operating life and efficiency:

- Numerical designs and simulations using CAD, CFD and FEA
- Computer modeling for size, weight, life and efficiency
- Filter and media modeling
- Advanced manufacturing technologies, e.g., aeronautical casting
- State-of-the art test labs

Fuel Filters and Strainers

Donaldson filters and strainers are manufactured using advanced technology processes, including laser and microplasma welding, brazing, clean rooms and ultrasonic cleaning benches.

Low-Temperature Fuel Filters

Donaldson has developed fully operational filters for use in low-temperature conditions. Our ice-tolerant filters are calibrated to operate at or close to -55°C. Key components include a light body alloy, draining system and quick removal/assembly of the filter cartridge.

Helicopter Fuel Filters

Donaldson is one of a few companies in the world capable of designing and producing fuel filters for helicopter operation.

Aircraft or Helicopter Applicability Examples

Broad Range	Strainers and Filters
Super Puma Mark II, NH90, M88, Westland EH101, Kaveri	Low-Temperature Fuel Filter
All Eurocopter Helicopters	High-Efficiency Fuel Filter



Low Temperature Fuel Filter used on NH-90 helicopter.



Donaldson Company, Inc.
PO Box 1299
Minneapolis, MN
55440-1299

www.donaldson.aero

North & South America 1-866-323-0394
Europe, Middle East & Africa +800-28002900
Singapore +65 6311 7357
Japan +81-42-540-4461 ext 100

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