



Synthetic Media Filter Cartridges

FOS Series

High Performance Replacements for Pleated Paper Cartridges Upgrade Your Oil Filtration Using Existing Housings

FEATURES

- Superior Filtration Efficiency
- Long-Life Durability
- Low Pressure Drop
- High Flow Rates
- No New Hardware Required

DESCRIPTION

FOS Series synthetic media cartridges provide excellent filtration performance for a wide variety of industrial applications. They excel in applications where water or chemicals cause softening or degradation of conventional resin impregnated cellulose (pleated paper) filter media. Due to the finer synthetic fibers used, FOS cartridges have a low pressure drop. Replacing an equivalent size paper filter will, in many cases, result in improved filtration efficiency, higher flow rates, longer service life, and significant cost savings.

APPLICATIONS

- All Hydrocarbon Fuels
- Cutting Oils
- Insulating Oils
- Glycols
- Toluol
- Naphtha
- Diesel Fuel
- Lube Oils
- Hydraulic Oils
- Water Emulsion Coolants
- Biodiesel Fuel
- Synthetic Oils
- Ethyl Alcohol
- Degreasing Fluids

A selection of FOS Series cartridges, suitable for a wide variety of applications, is offered:

FOS-512PL25 and FOS-718PL25 have a nominal 25 micron filtration rating. They are especially effective with cutting oils, and in some cases have had five times the life of equivalent size paper filters.

FOS-618PL05 and FOS-636PL05 have a nominal 5 micron filtration rating. They provide improved filtration for synthetic-based compressor lube oil applications.



**FOS-636PLP8 , FOS-618PL1/2,
FOS-618PL8, FOS-512PL25**

The 0.8 micron rated FOS-618PLP8 and FOS-636PLP8 are excellent “fine particle removal” filters and frequently are installed in existing lube oil filtration systems to upgrade system cleanliness.

FOS-618PL1/2 and FOS-636PL1/2 have a nominal 0.5 micron filtration rating. These models provide efficient removal of extremely fine particles without sacrificing cartridge life. They are used where tough ISO code oil cleanliness is needed.

GENERAL SPECIFICATIONS


- Collapse strength 75 psi
- Max. Operating temperature 250°F
- pH operating range 3 - 9
- Recommended change-out at 25 psid differential pressure or after one year, whichever occurs first
- Buna-N gasket material
- Filter media are glass micro-fibers backed by spun-bonded polyester and metal screen. Twenty-five micron designs are spun-bonded polyester only.
- Metal components are aluminized steel. FOS-512PL25 end caps are aluminum.
- End cap bonding material is urethane.

CARTRIDGE SELECTION TABLE

Cartridge Model	O.D. (Inches)	I.D. (Inchec)	Length (Inches)	Surface Area (In. ²)	Nominal ⁽¹⁾ Rating (Microns)	Beta	Size ⁽²⁾ where Beta=75	ACFTD Capacity (GMS)
FOS-512PL25	5 ⁵ / ₈	n.a.	12 ¹ / ₄	2390	25	n.a.	60	210
FOS-718PL25	6 ¹ / ₄	2 ⁹ / ₁₆	18	3970	25	n.a.	60	360
FOS-618PL05	6	2 ⁹ / ₁₆	18	2000	5	3.5	37	172
FOS-618PLP8	6	2 ⁹ / ₁₆	18	2000	0.8	90	8	87
FOS-618PL1/2	6	2 ⁹ / ₁₆	18	2000	1/2	250	4	71
FOS-636PL05	6	2 ⁹ / ₁₆	36	4160	5	3.5	37	358
FOS-636PLP8	6	2 ⁹ / ₁₆	36	4160	0.8	90	8	180
FOS-636PL1/2	6	2 ⁹ / ₁₆	36	4160	1/2	250	4	148

NOTES: ⁽¹⁾Nominal gravimetric filter micron rating.

⁽²⁾Particle size (microns) where Beta equals 75. Often referred to as the “absolute” rating of the cartridge.



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE:**

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