

TEFPOR GF Air and gases filter elements



- Porosity up to 94%.
- Filtration efficiency from 0,01 μm with effective removal of bacteria, yeast, mould and other microorganisms.
- Steam sterilisable 121°C.
- Validation for retention of bacteria *Brevundimonas diminuta* and coliphage.
- High flow rates with low pressure drops.

TEFPOR GF filters were designed as an answer for market's growing expectations and requirements of filtration products.

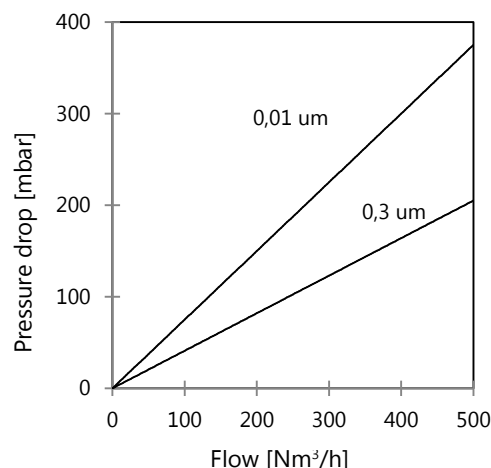
Filters are available in wide scale of absolute ratings, covering full range of filter requirements in pharmaceutical, food, chemical, petrochemical and natural gas extraction industries. In many cases TEPFOR GF filter elements are optimal solution from economical and technical point of view since they utilize depth filtration as well as other filtration mechanisms. This results in unique properties of the product. Filter medium is pleated glass microfiber with porosity of 94%, which corresponds to very high dirt holding capacity and provides large filtration area and low pressure drops.

Filter medium is impregnated with PTFE, thereby allows for hydrophobic effects at the filter surface as well as filter durability enhancement.

Components made of thermal-stabilized polypropylene increase thermal and mechanical resistances.

Filter with 0,01 μm efficiency is validated for retention of microorganisms. Such filters show effectiveness in reducing titre of *Brevundimonas diminuta* bacteria (0,2 μm) on minimum levels of 10¹² for 10" filter (LRV=12).

Flow rates for 10" element (20°C)



TEFPOR GF Air and gases filter elements

Structural materials

Filtration media:	PTFE Impregnated Borosilicate
Upstream support:	polypropylene
Downstream support:	polypropylene
Core:	polypropylene
Outer protection cage:	polypropylene
End caps:	polypropylene

Filtration area

0.4 m² 10" (250 mm)

**Maximum recommend continuous
operating temperature**
90°C

Maximum pressure drop

4,0 bar @ 21°C

2,4 bar @ 70°C

Sterilization

TEFPOR GF cartridges can be autoclaved up to 121°C (recommended time of one cycle is 30 min).

Contact with food

TEFPOR GF cartridges meet European Directives: 82/711/ECC, 85/572/ECC, 89/109/ECC, 93/8/ECC, 97/48/EC, 2001/61/EC, 2002/16/EC, 2002/72/EC and 2004/19/EC for food contact use and fiber migration.

Biological safety

According to FDA CFR21

Ordering information

TEFPOR GF filter cartridges are fully identified by unique code numbers which can be easily built up for ordering and identification purposes. To specify the TEFPOR GF filter cartridge you require, simply insert your particular requirements in the master code shown.

Type	Length [inch]	Micron rating [um]	End cap	O-rings
TFPRGF	2.5 = 2.5	0.01 = 001	double open end = O	E = EPDM
	5 = 5	0.30 = 030	222(3) = 2	S = Silicone
	10 = 10	0.50 = 050	226(7) = 6	V = Viton
	20 = 20		126 = T	P = PFA/Viton
	30 = 30		other =	
	40 = 40			