

# QUALI-FILTECH

Pleated cartridge

EN Data sheet



Recycled polypropylene

Polyester

Food-grade polypropylene



## Characteristics & benefits

- Wide range of media and filter materials with porosities between 0.2µm and 100µm.
- 100% welded and reinforced design.
- High retention capacity.
- Low pressure losses.
- Large filtering surface of 2.5m<sup>2</sup>/10".
- Contains no surfactants, binders, adhesives or silicone
- Easy to grip, thanks to QUALI-FILTRES's patented retractable handle
- Siebec patented pleat + Grid to maintain the gap between the pleats: guaranteed increased filtration quality and longevity

## Standard dimensions

External diameter	180 mm
Internal diameter	50 mm

## Description

QUALI-FILTECH cartridges are pleated filter elements.

The large filtering surface combined with the high porosity media provide the QUALI-FILTECH cartridge with minimal pressure drops and excellent retention capacities.

QUALI-FILTECH cartridges are assembled by heat welding (without glue) in order to guarantee maximum chemical compatibility and to avoid the risks of contamination.

Resistance to pressure and temperature is improved by the injection moulded inter cage.

The QUALI-FILTECH cartridge incorporates a mesh spacer upstream and downstream of the filter media to ensure the pleats are spaced apart. This design increases the life of the cartridge while maximising filtration flow.

## Building materials

Code	Material	Max. operating temperature	Application
FTPR	Recycled polypropylene	70°C	Reducing carbon impact
FTP	Food-grade polypropylene	70°C	FDA food application
FTPE	Polyester	110°C	High temperature and solvent

## Range of filter media available

Code	Material	Description
PP	Polypropylene (single-layer pleat pack)	Standard version with maximum filter surface - FDA-compliant food-grade
PE	Polyester	High temperature and solvent application
GF	Borosilicate micro-fiberglass with polyester support	Enhanced efficiency and retention capacity on colloidal particles - Industrial application
GFF	Borosilicate micro-fiberglass with polypropylene support	Enhanced efficiency and retention capacity on colloidal particles - FDA-compliant food-grade
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support	Increased filtration efficiency with nanoalumina - Food FDA

Consult us for chemical compatibility

## Terms of service

Maximum pressure loss	3 bar
Recommended replacement pressure differential	2 bar

## ORDER REFERENCE

Exemple :



### A / Building materials

Code	Description
FTPR	Recycled polypropylene
FTP	Food-grade polypropylene
FTPE	Polyester

### D / Lengths

Code	Length
10	10"
20	20"
30	30"

### B / Filter media

Code	Description
PP	Polypropylene (single-layer pleat pack)
PE	Polyester
GF	Borosilicate micro-fiberglass with polyester support
GFF	Borosilicate micro-fiberglass with polypropylene support
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support

### C / Removal ratings

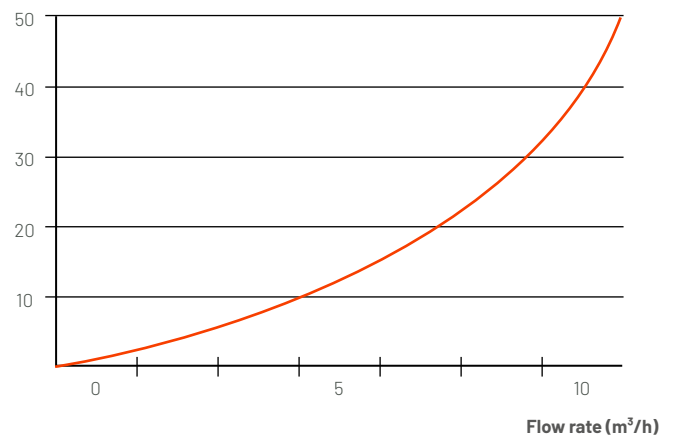
Code	Filtration efficiencies <sup>1</sup>		Materials				
	90%	99,9%	PP	PE	GF	GFF	GFF+
05	0,2 µm	0,5 µm	•				•
1	0,5 µm	1 µm	•		•	•	
3	1 µm	3 µm	•				
5	3 µm	5 µm	•	•			
10	5 µm	10 µm	•				
20	10 µm	20 µm	•	•			
35	20 µm	35 µm	•				
50	25 µm	50 µm	•	•			
90	50 µm	90 µm	•				

<sup>1</sup> Filtration efficiencies are determined in a single pass according to the modified NFX45-303 test protocol in the laboratory under high-flow operating conditions.

### Typical flow rates :

Pressure drop for 10" filtration media \*

Pressure loss (mBar)



\*Typical initial pressure drop  $\Delta P$  per 10" element, water at 20°C, viscosity 1cP.