

CERTIFICATE OF ANALYSIS

Ultipor® GF Plus Filter Cartridges

AB Style “W” Code

Cartridge Part Number

AB GF Z W

Table 1 Table 2 Table 3 Table 4

This is a guide to the part numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Removal Rating

Code	Description
H	< 1 micron
N	≤ 2 micron

Table 3 : Adaptor

Code	Description
3	SOE – single open end with flat closed end and external 222 O-rings
7	SOE – single open end with fin end, 2 locking tabs and external 226 O-rings
8	SOE – single open end with fin end and external 222 O-rings
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

Table 4 : O-Ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

The Ultipor GF Plus filter cartridges comprise a pleated filter pack of resin-bonded glass fiber medium on a polyester substrate and polyester non-woven support and drainage materials, with a polypropylene hardware configuration.

Ultipor GF Plus filters subject to food contact compliance regulations as described herein are intended for use in water and non-alcoholic aqueous fluids, at temperatures up to 80 °C (176 °F). They are also designed for use in air/gas particle removal in food and beverage applications.

An initial flush is recommended prior to use in liquids.

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Ultipor GF Plus Filter Cartridges (AB Style)

Components

Filter Media	Resin bonded glass fibers on a polyester substrate
Support / Drainage	Polyester
Cage and Core	Polypropylene
End Cap and Fin End	Polypropylene
Adaptor	Polypropylene with internal stainless steel reinforcing ring as appropriate to design.
O-ring Seal	Silicone Elastomer (H4) or Ethylene Propylene Rubber (J)

USA

The materials of construction meet the FDA requirements for water and aqueous food contact (excluding alcoholic and fatty foods) in that:

- The glass fibers contained in the GF Plus W Code filters are generally regarded as safe when fully encapsulated.
- The binder resins employed are manufactured from components which our suppliers state are listed in *Code of Federal Regulations*, 21CFR section 176.180 (Components of paper and paperboard in contact with dry food).
- Our supplier states that the polyester meets *Code of Federal Regulation*, 21CFR section 177.1630 (Polyethylene phthalate polymers). This material may be used for filtration of bulk food (excluding alcoholic beverages) repeated use applications, at temperatures not exceeding 100 °C (212 °F).
- Our suppliers state that the polypropylenes meet *Code of Federal Regulations*, 21CFR section 177.1520 (Olefin polymers)
- Our suppliers state that the 'H4' option Silicone elastomer material and 'J' option Ethylene Propylene Rubber are listed in *Code of Federal Regulations*, 21CFR section 177.2600 "Rubber articles intended for repeated use" (excluding milk and edible oils) used on 'W' code filters.

Process Quality System

Site of Manufacture: Pall Manufacturing (UK) Ltd., Ilfracombe, UK on behalf of Pall International Sàrl.

The Quality Management System at Pall Manufacturing (UK) Ltd., Ilfracombe, is certified to ISO 9001:2008. These products / product packaging carry a lot number / date code to facilitate traceability to suppliers' materials and Pall production records.



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