



# DECLARATION OF COMPLIANCE Ultipor® GF Plus Filter Cartridges AB Style “W” Code

## Cartridge Part Number



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 are intended for use in water, aqueous fluids and low alcoholic beverages (e.g. wine, beer) up to 20% alcohol, up to 49 °C (120 °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*
O-ring Seal	Silicone Elastomer (H4) or Ethylene Propylene Rubber (J)

\*For applications requiring autoclaving or steam sterilization, Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use.

### Declaration

Ultipor GF Plus, AB style, "W" Code style filter cartridges comprise of materials that meet regulatory and legislative requirements and guidelines for food contact in that:

#### Europe

The "W" code Ultipor GF Plus AB style filter cartridges meet the requirements as detailed in European Regulation (EC) Number 1935/2004, article 3 for food contact - for aqueous and low alcohol beverages (such as wine, at concentrations up to 20% alcohol), up to 49 °C (120 °F) in that:

- The filter medium of this product, which is a material composed of two or more layers of material, one of which does not consist exclusively of plastics, meets the requirements of EU Regulation (EC) number 1935/2004.
- Our supplier states that the monomers and additives employed to manufacture the plastic component of the medium are consistent with Annex I of Commission Regulation (EU) Number 10/2011 and its amendments, relating to plastic materials and articles intended to come into contact with foodstuffs.

Our suppliers state that the polypropylenes employed to manufacture the end caps, consistent with Annex I of Commission Regulation (EU) Number 10/2011 and its amendments.

- Overall migration testing of an AB1GFHZ7WH4 filter was performed, and met migration criteria after flushing and in flow conditions conducted in:  
Simulants B (3% acetic acid), 2 hours at 50 °C (122 °F)  
Simulant D1 (50% ethanol), 2 hours at 50 °C (122 °F)

The minimum calculated flow rate required was 4.8 kg/hr per 10" filter.

Note: This product contains materials that subject to Specific Migration Limit (SML) requirements. This product may contain trace levels of calcium stearate which is a 'dual additive' for food use.

- Samples of the silicone elastomeric (H4) and EPR (J) seal material formulations, typically used with the above part numbers, have been tested as 226 size seals for overall migration. Testing was conducted in distilled water, 3% acetic acid and 20% ethanol, under reflux conditions for 4 hours - repeat use. In respect of the overall migration limit for food contact elastomers according to the French requirements (given in Arrete of November 9th 1994 and published in Journal Officiel de la Republique Francaise, December 2nd 1994, p17029-17036) is 10 mg/dm<sup>2</sup>, data obtained with the rubber o-rings under the tested conditions was well within this limit.
- The volatile levels from samples of the silicone elastomer (H4) formulation, after heating at 200° for 4 hours, was found to be within the BfR section XV specification for this material.
- Our supplier states that the EPR (J) seal formulation is suitable for food contact use under BfR XXI category 4.

Users should satisfy themselves that these materials are suitable for use in their specific food application.

## 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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