

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

### Cartridge Part Number

MCY   W H4  
Table 1      Table 2

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

**Table 1 : Nominal Length**

Code	Length	Description
4440	105 mm (4.2")	Plug seal adaptor with locating fin and double external O-ring seals
4463	127 mm (5.3")	Single 116 O-ring Seal and internal plug seal

**Table 2 : Removal Rating**

Code	Description
GFHZ	1 µm
GFNZ	2 µm

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

Ultipor GF Plus filters, grades GFNZ and GFHZ 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 (Junior Style “W” Code)

### Components

Filter Media	Resin bonded glass fibers with polyester substrate
Support / Drainage	Polyester
Core / Cage	Polypropylene
Endcap Adaptor	Polypropylene (The 4463 style adaptor has an integral stainless steel reinforcing ring)
O-ring Seal	Silicone Elastomer (H4)

### Declaration

Ultipor GF Plus Junior style “W” Code filter cartridges comprise materials that meet regulatory and legislative requirements and guidelines for food contact in that:

#### Europe

“W” Code Ultipor GF Plus, GFNZ and GFHZ, Junior style filter cartridges meet the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 article 3, 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 multi-material multi-layer construction, one which does not consist exclusively of plastics, meets the requirements of EU Regulation (EC) number 1935/2004, in that:
- The plastic components in the medium meet the requirements of European Regulation (EU) Number 10/2011 relating to plastic materials and articles intended to come into contact with foodstuffs, in that our supplier information indicates that the monomers and additives employed are consistent with those listed in Regulation 10/2011 Annex 1 and its amendments, relating to plastic materials and articles intended to come into contact with foodstuffs.
- The polypropylenes employed to manufacture the endcaps, cage, core, adaptor and fin of these products - together with the polyester support/drainage layer - are made of materials which meet the requirements of Regulation (EU) Number 10/2011 Annex 1 and its amendments.
- Overall migration testing of an AB1GFHZ7WH4 filter was conducted and met migration criteria after flushing and in flow conditions, in:  
Simulant 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.

This product contains materials that subject to Specific Migration Limit (SML) requirements.

#### Note:

This product may contain trace levels of calcium stearate which is a 'dual additive' for food use.

- Samples of the silicone elastomeric (H4) seal material formulation, 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.

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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