

STERYAQUA – QSP *Double Layer*

High surface area filter cartridge for water applications

STERYAQUA *Double Layer* filter cartridges are manufactured with two hydrophilic PES (Polyethersulphone) membrane, specifically designed for water filtration. The production is in our modern CLEAN ROOM, class 10.000 (M4) according to cGMP guidelines to assure outstanding quality filter elements.

FEATURES:

- Highly Asymmetric Polyethersulphone membrane for full microorganism retention
- Upstream and downstream drainage layers in Polyester for better wettability
- Construction materials are chemically and biologically inert according to F.D.A., U.S.P. and E.E.C. directives.
- 0.1, 0.2, 0.45, 0.65 absolute retention ratings
- High chemical compatibility

BENEFITS:

- Sanitization by chemical agents or with hot water at 80° C or in-situ steaming for 20 cumulative hours at 125 °C
- Regenerable with NaOH solution at 25° C



FILTRATION RATING		WATER FLOW RATE FOR 10"	
FILTRATION GRADE	ABSOLUTE FILTRATION RATING (micron)	FILTRATION RATING	l/h (ΔP = 0,1 BAR)
ZAA	0.1 double layer	ZAA	600
ZBB	0.2 double layer	ZBB	1000
ZCC	0.45 double layer	ZCC	1200
ZDD	0.65 double layer	ZDD	1500

INTEGRITY TEST FOR 10" CARTRIDGE (t= 20-25° C)		INTEGRITY TEST FOR 30" CARTRIDGE (t= 20-25° C)		
FILTRATION RATING micron	ACCEPTABLE LIMIT FOR DIFFUSION FLOW TEST for 10" cartridges (ml/min)	ACCEPTABLE LIMIT FOR PRESSURE HOLD TEST* (5 minutes)		TEST PRESSURE
0.1	≤ 18 @ 2.8 bar	0.13 bar**	0.04***	2.8 bar
0.2	≤ 15 @ 1.8 bar	0.13 bar**	0.04***	1.8 bar
0.45	≤ 20 @ 1.2 bar	0.15 bar**	0.04***	1.2 bar
0.65	≤ 20 @ 0.9 bar	0.15 bar**	0.04***	0.9 bar

The DIFFUSION FLOW TEST and PRESSURE HOLD TEST are performed using WATER as the wetting liquid.
 (*) The calculated values depend on upstream volume of the housing for 1 cartridge (**) and 8 cartridges 30" (***)

BIOLOGICAL SAFETY

Component materials meet the USP specifications for Class VI-121° C Biological Tests for plastics.

EXTRACTABLE SUBSTANCES

STERYAQUA *Double Layer* filter cartridges meet the current USP XXV requirements.

GLOBAL MIGRATION TEST

STERYAQUA *Double Layer* filter cartridges meet European directives (Global migration test for extractables) 82/711/EEC, 85/572/EEC, 80/128/EEC, 92/39/EEC, 93/8/EEC, 93/9/EEC, 2002/72/EC, 2004/19/EC.

STERYAQUA *Double Layer* ORDERING INFORMATION

