

DUREDUNTY® FILTER CARTRIDGES

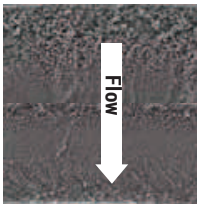
DOUBLE-LAYER PES MEMBRANE FILTERS DESIGNED FOR FINAL FILTRATION OF DYE-BASED INK JET INKS

Duredunty® Filter Cartridges use a unique double-layer PES membrane and are designed as a final filter for dye-based ink jet inks filtration. The double-layer membrane provides excellent filtration efficiency, eliminating the difficulties encountered by dried ink particles and gels.

FEATURE

BENEFIT

Double-Layer PES membrane



Double-layer membrane provides excellent filtration efficiency and highest assurance of ink quality.

Built-in Asymmetric prefilter layer for longer lifetime and excellent gel removal.

Recommended for ecosolvent ink gel removal.

Provides broad chemical compatibility (pH 1-14); excellent compatibility with dye-based ink chemistries.

Quality Assurance

These products are manufactured in a facility which adheres to ISO 9001:2015 Practices. 100% Integrity tested and Lot traceable.

Particle Shedding

Non-fiber releasing. Autoclaved filter effluent meets the requirements in USP <788>

Non-Fiber Releasing

Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)

SPECIFICATIONS

Filter media

Double-layer PES membrane (Asymmetric PES + Symmetric PES)

Supports/core/cage/end caps

Polypropylene

Effective filtration area

0.6m² (6.5 ft²)/ Ø69-10 inch

O-rings

Silicone, EPDM, FKM, FEP/PFA encapsulated FKM

Cartridge diameter

69 mm (2.7 in.)

Max. Operating temperature

80°C

Max. Differential pressure

0.40 MPa (4.0 bar, 58 psi) at 21°C;
0.21 MPa (2.1 bar, 35 psi) at 80°C

Bubble Point

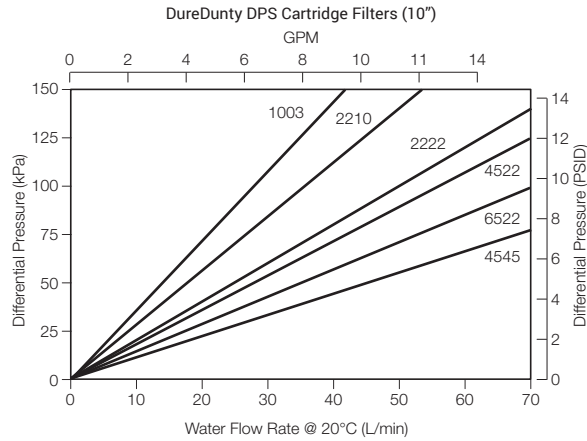
	1003	2210	2222	4522	4545
	0.1 µm	0.22 µm	0.22 µm	0.45 µm	0.45 µm
	+ 0.03 µm	+ 0.1 µm	+ 0.22 µm	+ 0.22 µm	+ 0.45 µm
	≥ 5.0 bar	≥ 3.8 bar	≥ 3.4 bar	≥ 3.2 bar	≥ 2.0 bar



Typical Applications

- Final Filtration of Dye-based Ink Jet Inks

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **DPS HS4522SF10E-C** = 0.45 μm + 0.22 μm , 226/Fin, 10" filter with EPDM seals

DPS HS



-C

Removal Rating

1003 = 0.1 μm + 0.03 μm
 1010 = 0.1 μm + 0.1 μm
 2210 = 0.22 μm + 0.1 μm
 2222 = 0.22 μm + 0.22 μm
 4522 = 0.45 μm + 0.22 μm
 4545 = 0.45 μm + 0.45 μm

Connection

DOE = Double Open End, Flat Gasket
 TC = 222 O-ring/Flat Cap
 TF = 222 O-ring/Fin Cap
 SC = 226 O-ring/Flat Cap
 SF = 226 O-ring/Fin Cap

Nominal Length

05 = 5"
 10 = 10"
 20 = 20"
 30 = 30"
 40 = 40"

Seal Material

S = Silicone
 E = EPDM
 V = FKM
 P = E-FKM (FEP/PFA encapsulated FKM)



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