

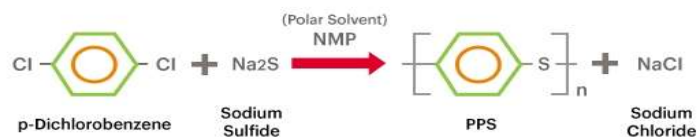
PPS Wound Cartridge Filter

> Description

- 糸を多様なパターンに巻取して製造、精製された孔隙が積層され濾過効能アップ
- 孔隙の直径と積層された厚み、巻取密度による濾過性能及び交代寿命の制御
- 濾過範囲が広く、優れた流量、寿命及び差圧特性
- 優れた耐熱性: 連続使用最大温度 192°C
- 圧倒的な耐化学性
- 難燃性、耐加水分解性、電気絶縁の素材特性



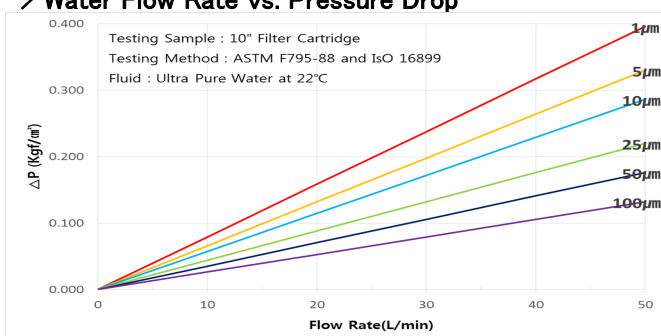
> Properties of PPS(Polyphenylene Sulfide) Yarn



	PPS	PET
LOI(%)	40	22
Melting Point(°C)	285	255
Use Temp(°C)	190	150
Specific Gravity(g/cm ³)	1.35	1.40
Moisture Absorption(%)	0.02	0.40
Resistance to Hydrolysis	++	-
Chemical Resistance	Acids ++	o
	Alkalis ++	-

++(excellent), +(good), -(not recommended), o(poor)

> Water Flow Rate vs. Pressure Drop



> Removal Efficiency

Micron rating (μm)	β = 100	β = 10
	99.00%	90.00%
1	9	4
5	13	10
10	17	13
25	32	25
50	54	38
100	86	60

β ratio : 該当効率を満たされる最小捕集粒子大きさ

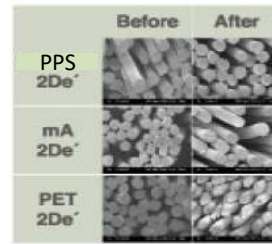
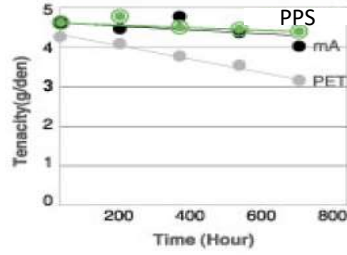
> Specification

Dimension	Length	250, 500, 750mm
	ID	30mm
	OD	61, 63, 110mm, Customizing
Materials	Media(yarn)	PP Yarn
	Core	PP, SUS304, Reinforced PP, Nylon
Operating Conditions	Max Temperature	192°C
	Max ΔP	4.5Kgf/cm ² at 22°C

➤ Resistance Comparison Data of Thermal Synthetic Fiber

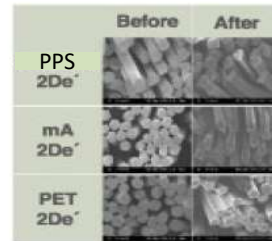
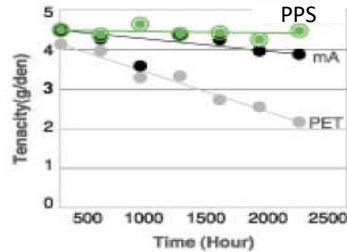
Alkali Resistance Test (Ca(OH)₂)

• Test Sample
ZetaOne, m-Aramid, Polyester (2.0 De^{*})
• Test Condition
Ca(OH)₂, 38%, 25℃, Duration hr : 672hr



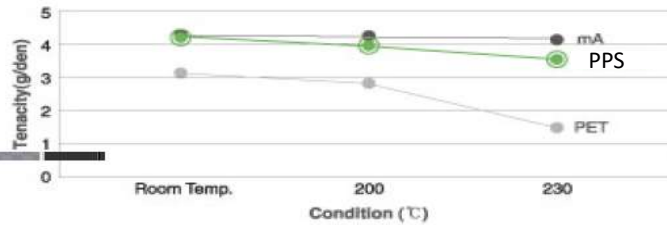
Acid Resistance Test (H₂SO₄)

• Test Sample
ZetaOne, m-Aramid, Polyester (2.0 De^{*})
• Test Condition
H₂SO₄, 48%, 25℃, Duration hr : 2,016hr



Thermal Test

• Test Sample
ZetaOne, m-Aramid, Polyester (2.0 De^{*})
• Test Condition
25, 200, 230℃ x 12hr



➤ Resistance Data of PPS Yarn
- Attached data

➤ Ordering Guide

Micron (μm)	Media	Core	Dia.(mm)	Length(mm)
1	PPS Yarn	PP	61	250
5		SUS430	63	500
10		Reinforced PP	110	750
25		Nylon	etc.	
50				
100				