



Toase-che Park Sanati Gohar Ofogh Petrochemical Co.  
**CONCEPTUAL, BASIC and DETAIL DESIGN  
ENGINEERING OF STYRENE PARK OFFSITE**

Document Title: Process Data sheet For Filter Package

Document No. : EI027-000-ED-PR-DSH-503

Rev.R2

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## **STYREN PARK OFFSITE**

**Document Title:**

### **PROCESS DATASHEET FOR FILTER PACKAGE**

R2	26.08.2023	Final ISSUE (FI)	M.R.Chizari	A.Javid	H.Tavana
R1	18.08.2020	Final ISSUE (FI)	M.Abbasian	S.Behniafar	R.Memar
R0	10.05.2020	ISSUE FOR APPROVAL (IFA)	M.Abbasian	S.Behniafar	R.Memar
<b>Rev.</b>	<b>Issued Date</b>	<b>DESCRIPTION</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>



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Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X	X					41							
2	X	X	X					42							
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
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**ITEM NO.:** PK-0001A/B

**SERVICE:** Styrene Vent Filter Package

**QUANTITY:** Two

OPERATING CONDITION		DESIGN DATA	
Fluid Handled	Nitrogen/Oxygen/Styrene traces	Type of Filter	Basket
Phase (Vapor/Liquid)	Vapor-Gas	Inside Diameter	(Note 1)
Flow Rate (Normal/Rated)	1080/1188 (Nm3/hr)	Length/Height	(Note 1)
Viscosity	0.02 (cP)	Material Of Construction (Shell)	Carbon Steel (Note 2)
Density	2.9 (kg/m3)	Material Of Construction (Internal)	By Vendor
Molecular Weight	28.1	Corrosion Allowance	3.0 (mm)
Inlet Pressure	0.02 (barg)	Insulation	No
Inlet Temperature	15 (°C) 	Design Pressure	3.5 (barg)
Minimum Ambient Temperature	5 (°C)	Design Temperature	85 (°C)
Allowable Pressure Drop	100 mm H2O Clean	Substance to be Filtered	Air Impurities (Solid)
Flammable/ Toxic/Corrosive/ Erosive	YES / YES / NO / NO	Inlet Nozzle	6" / 150# / RF
Vent / Drain	YES / YES	Outlet Nozzle	6" / 150# / RF
Filtered Particle Size	5 µm	Filtration efficiency	95%

## **NOTES**

1.Equipment dimintions shall be defined by vendor.

2.To be confirmed by vendor.

3.Hazard identification (Risk phases): R10, R20 ,R36/38 (Styrene)

4.Maximum styrene content :3.5 g/Nm3.Classification as per NFPA 704

Health hazard classification: 2

Fire hazard classification: 3

Reactivity hazard classification: 2