



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



BINA EPC Contractor Co.
(Executor of Oil, Gas, Petrochemical & Power Industries)

Document Title: Process Data sheet For Filter Package

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

Rev.R1

Page 1 of 3

STYREN PARK OFFSITE

Document Title:

PROCESS DATASHEET FOR FILTER PACKAGE

| | | | | | |
|-------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| | | | | | |
| 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 |
| Rev. | Issued Date | DESCRIPTION | PREPARED | CHECKED | APPROVED |



Toase-eh Park Sanati Gohar Ofogh Petrochemical Co.

**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



BINA EPC Contractor Co.
(Executor of Oil, Gas, Petrochemical & Power Industries)

Document Title: Process Datasheet For Filter Package

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

Rev.R1

Page 2 of 3

| Page | Revisions | | | | | | | Page | Revisions | | | | | | |
|------|-----------|----|----|----|----|----|----|------|-----------|----|----|----|----|----|----|
| | R0 | R1 | R2 | R3 | R4 | R5 | R6 | | R0 | R1 | R2 | R3 | R4 | R5 | R6 |
| 1 | X | X | | | | | | 41 | | | | | | | |
| 2 | X | X | | | | | | 42 | | | | | | | |
| 3 | X | X | | | | | | 43 | | | | | | | |
| 4 | | | | | | | | 44 | | | | | | | |
| 5 | | | | | | | | 45 | | | | | | | |
| 6 | | | | | | | | 46 | | | | | | | |
| 7 | | | | | | | | 47 | | | | | | | |
| 8 | | | | | | | | 48 | | | | | | | |
| 9 | | | | | | | | 49 | | | | | | | |
| 10 | | | | | | | | 50 | | | | | | | |
| 11 | | | | | | | | 51 | | | | | | | |
| 12 | | | | | | | | 52 | | | | | | | |
| 13 | | | | | | | | 53 | | | | | | | |
| 14 | | | | | | | | 54 | | | | | | | |
| 15 | | | | | | | | 55 | | | | | | | |
| 16 | | | | | | | | 56 | | | | | | | |
| 17 | | | | | | | | 57 | | | | | | | |
| 18 | | | | | | | | 58 | | | | | | | |
| 19 | | | | | | | | 59 | | | | | | | |
| 20 | | | | | | | | 60 | | | | | | | |
| 21 | | | | | | | | 61 | | | | | | | |
| 22 | | | | | | | | 62 | | | | | | | |
| 23 | | | | | | | | 63 | | | | | | | |
| 24 | | | | | | | | 64 | | | | | | | |
| 25 | | | | | | | | 65 | | | | | | | |
| 26 | | | | | | | | 66 | | | | | | | |
| 27 | | | | | | | | 67 | | | | | | | |
| 28 | | | | | | | | 68 | | | | | | | |
| 29 | | | | | | | | 69 | | | | | | | |
| 31 | | | | | | | | 71 | | | | | | | |
| 31 | | | | | | | | 71 | | | | | | | |
| 32 | | | | | | | | 72 | | | | | | | |
| 33 | | | | | | | | 73 | | | | | | | |
| 34 | | | | | | | | 74 | | | | | | | |
| 35 | | | | | | | | 75 | | | | | | | |
| 36 | | | | | | | | 76 | | | | | | | |
| 37 | | | | | | | | 77 | | | | | | | |
| 38 | | | | | | | | 78 | | | | | | | |
| 39 | | | | | | | | 79 | | | | | | | |
| 40 | | | | | | | | 80 | | | | | | | |



Toase-eh Park Sanati Gohar Ofogh Petrochemical Co.

**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



BINA EPC Contractor Co.
(Executor of Oil, Gas, Petrochemical & Power Industries)

Document Title: Process Datasheet For Filter Package

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

Rev.R1

Page 3 of 3

| 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 | Amb (°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 dimentions 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