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Transflow
PROCESS EQUIPMENTS PVT. LTD.

Sarvodaya Estate, At: Khatamba,
PO: Ankhol, Tal: Waghodia, Dist Vadodara - 390019,
Gujarat,(India)

Phone
+91 99242 91176 | +91 90990 29622

Email
paresh.shah@transflow.in | sales@transflow.in

ISO 9001:2015 Certified Company
Vadodara, Gujarat – India | Global Manufacturing & Export

Transflow
PROCESS EQUIPMENTS PVT. LTD.



CORROSION SOLUTION
WITH FLUORO POLYMERS

www.transflow.in

STRENGTH AGAINST

CORROSION.

EXCELLENCE IN PURITY.



www.transflow.in

Transflow
PROCESS EQUIPMENTS PVT. LTD.

ABOUT US

Transflow Process Equipments Pvt. Ltd. is a professionally managed organization built on a strong legacy of engineering excellence in the field of corrosive and high-purity chemical processing solutions.

Led by the vision of its promoters, Mr. Jaydatt Shah and Mr. Om Shah, Transflow Process Systems Pvt. Ltd. brings together decades of experience in manufacturing, application engineering, and customer-focused solutions.

With the guidance and technical leadership of Mr. Paresh Shah, who brings over 32 years of rich industry experience, the company is driven by innovation, quality, and deep process understanding.

OUR STRENGTH

Our combined leadership brings:

- Extensive experience in fluoropolymer-lined equipment
- Strong expertise in PTFE/PFA/FEP/PVDF systems
- Proven track record in chemical, petrochemical, and pharmaceutical industries

Transflow
PROCESS EQUIPMENTS PVT. LTD.

CORROSION
PROOF CONFIDENCE.

WHAT WE DO
We specialize in delivering:
- PTFE / PFA lined pipes, fittings & valves
- Fluoropolymer-lined process equipment
- Custom-engineered solutions for highly corrosive media
- High-purity systems for critical applications

Our products are designed to meet stringent international standards and ensure long life, safety, and reliability.

OUR VISION
To become a leading global provider of innovative and reliable process equipment solutions for corrosive and high-purity applications.

OUR COMMITMENT
- ENGINEERING EXCELLENCE
- QUALITY AND RELIABILITY
- CUSTOMER SATISFACTION
- CONTINUOUS INNOVATION

LEADERSHIP STATEMENT
With a strong foundation laid by Mr. Jaydatt Shah and Mr. Om Shah, and enhanced by the technical expertise of Mr. Paresh Shah, Transflow Process Equipments Pvt. Ltd. is poised to deliver world-class solutions to the process industry.



INDUSTRIES WE SERVE
- Chemical Industries
- Oil & Petro-Chemical Industries
- Pharma & Biotech Processing Plants
- Nuclear & Thermal Power Generation
- Refining & Petrochemicals
- Pesticides, Paper & Pulp
- Chlor - Alkali Industry
- Agrochemicals
- Waste Water Treatment
- Dairy/ Food Equipment / Processing Machinery
- High-Purity Semiconductor Industry

SHEET LINED PRODUCT

STORAGE TANKS



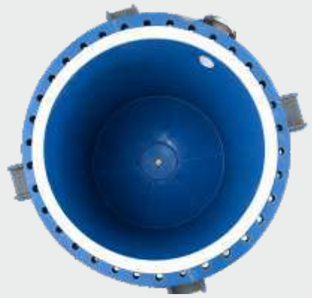
REACTORS



DISHLATION COLOMN



CATCH POT



AGITATOR



COLUMN



SHEET LINING OPTION

PVDF



PP / HDPE



ECTFE



FEP



PFA



PTFE



M-PTFE



Engineered to resist the harshest environments, our solutions ensure durability, reliability, and long-term performance where it matters most. Advanced anti-corrosion technology designed to extend lifespan, reduce maintenance, and safeguard your assets for years to come.

DEFYING CORROSION. DELIVER STRENGTH



TECHNICAL DETAILS

PRODUCT OVERVIEW & SOLUTIONS

Our Sheet Lining Systems are engineered to provide superior protection against:

- Corrosion
- Abrasion
- Chemical attack
- High temperature exposure
- Impact and mechanical stress

APPLICATIONS:

- Chemical processing equipment
- Storage tanks & reactors
- Pipelines & ducts
- Pressure vessels
- Flue gas systems

AVAILABLE LINING TYPES:

- PTFE / M-PTFE / FEP / PFA lining
- PVDF / ECTFE lining
- HDPE / PP sheet lining

TEMPERATURE SPECIFICATIONS

- **Low Temperature Capability:** Down to -50°C (depending on material)
- **Standard Operating Temperature:** Up to 120°C
- **High Temperature Lining Options:** Up to 260°C (PTFE-based systems)
- Thermal shock resistance available on selected materials
- Heat cycling compatibility tested

MINIMUM TO MAXIMUM SIZES

- Sheet Thickness: 2 mm to 6 mm (custom up to 25 mm)
- Tank Diameter Capability: 500 mm to 6000 mm
- Sheet Width: Up to 1500 mm
- Sheet Length: Custom fabricated as per requirement
- Complex geometries supported

Transflow
PROCESS EQUIPMENTS PVT. LTD.

TECHNOLOGY & PROCESSING

Our sheet lining process includes:

- Surface preparation by grit blasting (SA 2.5 / SA 3)
- Primer & bonding system application
- Hot vulcanization / cold bonding
- Vacuum lining technique (where required)
- Spark testing post-application
- Controlled curing process
- CNC cutting for precision fabrication

We follow controlled environmental conditions for humidity & temperature during installation.

TESTING PARAMETERS

Each lined component undergoes rigorous inspection:

- Spark Testing
- Adhesion / Peel Strength Test
- Hardness Test (Shore A / D)
- Thickness Measurement (DFT Gauge)
- Hydrostatic Testing (if applicable)
- Visual inspection (100%)

Optional Third-Party Inspection available.

QUALITY CHECK PARAMETERS

- Incoming raw material inspection
- Batch traceability
- In-process inspection at each stage
- Bond strength verification
- Dimensional tolerance verification
- Final QC clearance documentation
- ISO compliant manufacturing practices

KEY HIGHLIGHTS & RECOMMENDATIONS

- Custom engineered solutions
- Suitable for aggressive chemical environments
- Extended equipment life
- Reduced maintenance cost
- Fast installation & shutdown time
- Compliance with international standards

RECOMMENDED SELECTION GUIDELINES:

- Identify chemical compatibility
- Confirm operating temperature & pressure
- Consider abrasion level
- Evaluate mechanical load & impact
- Select lining thickness accordingly

ADDITIONAL TECHNICAL INFORMATION

- Compliance with ASTM / DIN standards
- Available in anti-static grade
- FDA-grade lining options available
- Fire-retardant options
- Repair & relining services available
- On-site & workshop lining capability

PTFE/PFA SHEET LINING FOR TANKS

HIGH-PERFORMANCE CORROSION-RESISTANT LINING SOLUTIONS FOR CHEMICAL STORAGE & PROCESS EQUIPMENT

PTFE (POLYTETRAFLUOROETHYLENE) / PFA (PERFLUOROALKOXY)

Premium fluoropolymer lining for extreme chemical resistance, high temperature durability, and contamination-free storage. Suitable for chemical, pharmaceutical, food, and high-purity industries.

APPLICATIONS

- Chemical storage tanks
- Pharmaceutical reactors
- Acid pickling & electroplating tanks
- Food & beverage vessels
- High-purity & ultra-clean process tanks

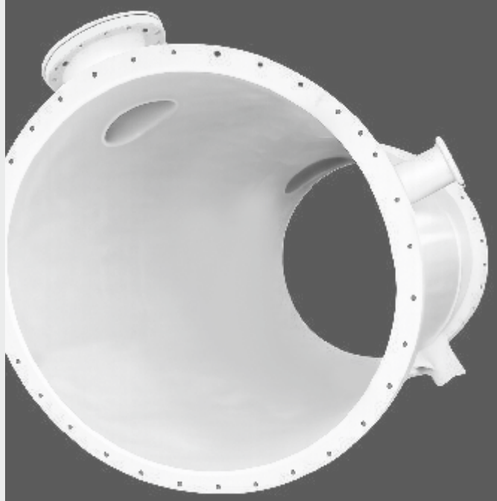
WHY CHOOSE PTFE & PFA LINING?

- Maximum corrosion & chemical resistance
- Withstands temperatures up to 260°C
- Non-stick, contamination-free surface
- Long service life with minimal maintenance
- Ideal for aggressive media & ultra-pure chemicals

SUBSTRATE COMPATIBILITY

- Carbon Steel (CS)
- Stainless Steel (SS)
- FRP / GRP
- Concrete Tanks

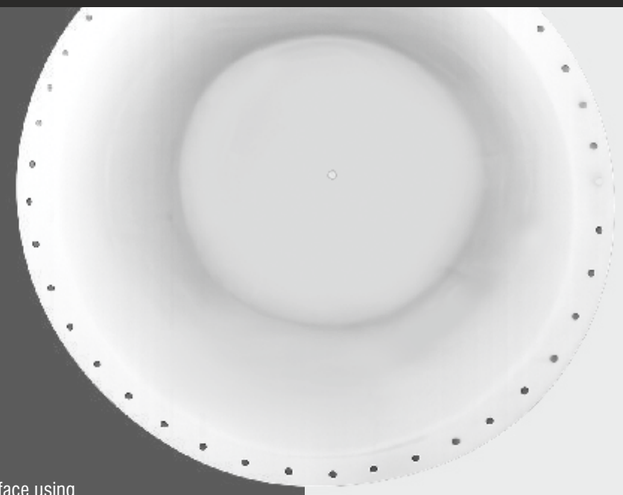
ZERO CORROSION.
MAXIMUM LIFE.



SHEET THICKNESS OPTIONS
2 mm, 3 mm, 4 mm, 6 mm, 8 mm, 10 mm
Custom thickness available upon request

METHOD OF WORKING

Our PTFE/PFA sheet lining system uses a bonded or loose-lining technique depending on tank design and service conditions.



BONDED LINING

- Sheets are bonded to the tank surface using specialized adhesives
- Provides strong mechanical & vacuum resistance
- Suitable for pressurized tanks
- Smooth, seamless interior finish
- Sheets are mechanically locked or welded at seams
- Allows for thermal expansion
- Ideal for high-temperature applications
- Easy replacement and maintenance

LINING PROCESS OVERVIEW

STEP 1: SURFACE PREPARATION

- Grit blasting or grinding of tank surface
- Removal of rust, scale, oil, paint
- Achieve clean, textured surface

STEP 2: CUTTING & PRE-FORMING

- PTFE/PFA sheets cut to required size
- Pre-forming applied for complex shapes, nozzles, corners

STEP 3: BONDING / FIXING

- Application of primer and adhesive (for bonded type)
- Positioning sheets accurately inside the tank
- Mechanical anchoring or thermal fixing for loose-line design

STEP 4: WELDING OF SEAMS

- Hot air or IR welding for PFA
- High-precision butt welding or overlap welding
- Ensures leak-proof, continuous lining

STEP 5: INSPECTION & QUALITY TESTING

- Spark testing (high-voltage)
- Visual inspection
- Thickness measurement
- Adhesion check

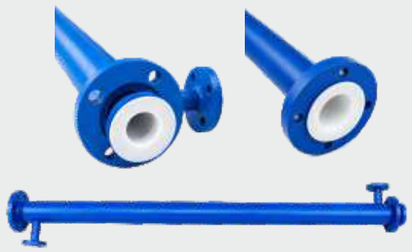
STEP 6: FINAL FINISHING

- Edge trimming
- Nozzle reinforcement
- Polishing of welded joints



OUR OTHER PRODUCT RANGE

LINED PIPE



LINED BEND



LINED REDUCER & REDUCING FLANGE



LINED EQUAL TEE & UN EQUAL TEE



LINED EQUAL CROSS & UN-EQUAL CROSS



LINED INSTRUMENT TEE



LINED DOUBLE WINDOW SIGHT GLASS & FULL VIEW SIGHT GLASS



LINED STRAIGHT DIP PIPE & DIP PIPE SPARGER



LINED BALL VALVE



LINED BUTTERFLY VALV



LINED PLUG VALV



LINED SAMPLING VALV



LINED DIAPHRAGM VALV



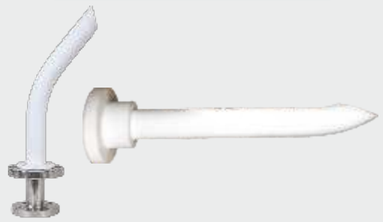
PTFE HIGH PRESSURE BELLOW



LINED TAPER DIP PIPE & DIP PIPE SPARGER



LINED J TYPE DIP PIPE & DROP TUBE



LINED NON RETURN VALVE



LINED FLUSH BOTTOM VALVE



LINED Y TYPE STRAINER



From industrial systems to precision applications, we protect every surface with unmatched quality and consistency.

CORROSION STOPS HERE









