GORE® Turbine Filters
More Power, Less Wear

Hydrophobic HEPA Filtration for Gas Turbine Air Intake Systems

ELIMINATE TURBINE FOULING. UNLOCK PEAK LIFETIME PERFORMANCE.

Most turbine losses are airborne. Eliminate contamination at the inlet, and eliminate the root cause of performance degradation.

The Problem

- Fine aerosols and submicron particles can penetrate conventional filtration systems
- Ingress of water and salt into the compressor and combustion sections
- Compressor fouling decreases compressor efficiency and reduces gas turbine output
- Salt pitting and hot corrosion lead to increased damage and significantly higher repair costs
- Compressor washing does not fully restore lost efficiency, leading to residual performance degradation and increased unit downtime

The Solution

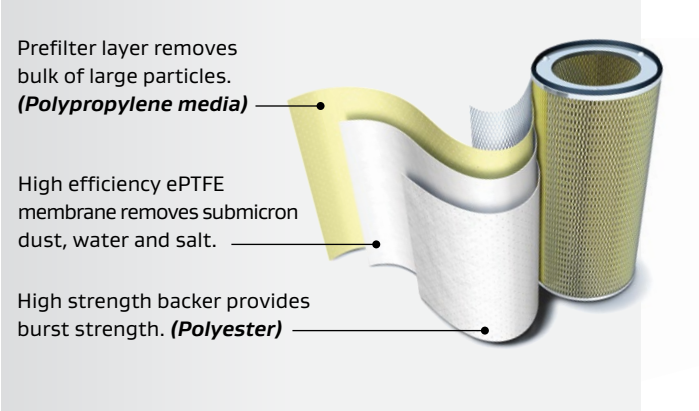
- GORE® Hydrophobic HEPA Filters
- ≥99.5% efficiency (E12, MPPS)
- PTFE membrane blocks water & salts
- Differential pressure is similar to that of conventional filters
- Clean, dry air delivered continuously

Key Benefits

- Eliminate compressor fouling
- Eliminate compressor washing
- Extended lifetime of GT parts
- Significant reduction in O&M cost
- 1–6 months ROI

Technical Proof

Filtration Efficiency	≥99.5% (E12, MPPS)
Water/Salt Barrier	Hydrophobic ePTFE
Fouling Prevention	Near-zero ingress
O&M Reduction	Significant & extend MTBO
Payback	1–6 months ROI



Use Cases

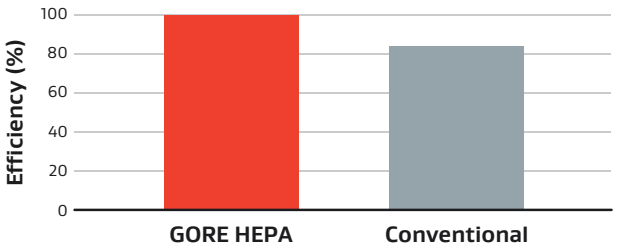
- Offshore/Coastal plants (salt exposure)
- Desert environments (fine dust)
- Industrial zones (pollutants)
- Power Gen (Baseload & peaker turbines)

Differentiation

Conventional: Compressor fouling, corrosion, efficiency loss

GORE HEPA/EPA: Clean air, stable output, no fouling

Filtration Efficiency at MPPS (%)



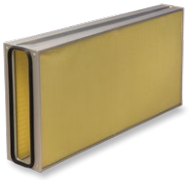
Together, improving life

Part Numbers

Filter Type (Select)	Item Number	Description
Conical (Pair with Cylinder)	TCE010-502-BH	324/445 mm OD, 660 mm L, G60
Conical (Pair with Cylinder)	TCE026-502-BH	324/408 mm OD, 660 mm L, G60
Conical (Pair with Cylinder)	TCE031-502-BH	324/445 mm OD, 660 mm L, G60 WHT
Conical (Pair with Cylinder)	TCE032-502-BH	324/447 mm OD, 660 mm L, G60 WHT
Composite Cylindrical	TCU011-532-AH	445 mm OD, 355 mm ID, 661 mm L
Cylindrical	TCU025-522-BH	324 mm OD, 710 mm L, G60 WHT
Cylindrical	TCU016-522-BH	324 mm OD, 700 mm L, G60
Cylindrical	TCU017-522-BH	324 mm OD, 660 mm L, G60
Cylindrical	TCU018-522-BH	324 mm OD, 560 mm L, G60
Cylindrical	TCU019-522-BH	324 mm OD, 680 mm L, G60
Cylindrical	TCU030-522-BH	324 mm OD, 660 mm L, G60 WHT
Cylindrical	TCU037-522-BH	324 mm OD, 864 mm L, G60
Cylindrical	TCU039-522-BH	324 mm OD, 914 mm L, G60
Cylindrical with Square End Cap	TCU020-562-BH	324 mm OD, 914 mm L, FLNG TOP
Cylindrical with Square End Cap	TCU022-562-BH	324 mm OD, 663 mm L, FLNG TOP
Cylindrical with Square End Cap	TCU026-562-BH	324 mm OD, 1014 mm L, FLNG TOP
Cylindrical with Square End Cap	TCU034-562-BH	324 mm OD, 864 mm L, FLNG TOP
Pulse Panel	TCV039-170-T	GORE® Turbine Filters
V-Panel	TPV001-A	V12- 297 mm
V-Panel	TPV002-A	V15- 396 mm
V-Panel	TPV003-A	V18- 470 mm
V-Panel (Deep V)	TPV006-T	V24- 600 mm
Z-Panel	TPZ-E12-003-2510-T	GORE® Turbine Filters
Z-Panel	TPZ-E12-008-1510-T	GORE® Turbine Filters









Request a site assessment or performance simulation today.

W. L. Gore & Associates — Advanced filtration solutions for critical environments.

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Covered by the following patents: EP 16741441, US 7501003, US 8147583

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AMERICAS
W. L. Gore & Associates, Inc.
101 Lewisville Road,
Elkton, MD 21921 USA
T +1 410 392 3300

EUROPE
W. L. Gore & Associates GmbH
Hermann-Oberth-Str. 26
D-85640 Putzbrunn Germany
T +49 89 4612-2211

MIDDLE EAST
W. L. Gore & Associates GmbH
Middle East - Abu Dhabi
Al Wahda City Tower, 20th floor,
Royal Business Center
732 Hazza' Bin Zayed The First street, E19
Al Nahyan, Abu Dhabi UAE
T +971 2 5089444

E turbinefilters@wlgore.com
gore.com/turbinefilters

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