

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / FLOW SYSTEMS

BioSlick™ FlowShield

Replaceable low-drag liner and flow-system concept.

A replaceable internal liner concept to protect pipe surfaces while targeting pressure loss in difficult-flow service.





BIOSLICK™ FLOWSHIELD / 01

A flow-system concept

BioSlick™ FlowShield combines a replaceable internal barrier with a low-drag surface architecture.

PIPE BODY

Retain the structural steel pipe while renewing the contact surface.

LINER

Specify a replaceable inner layer for the fluid and abrasion duty.

FLOW SURFACE

Evaluate surface pattern, materials and hydraulic performance.

RETENTION

Engineer ends and seals for the operating pressure, temperature and maintenance plan.

This is an engineered development concept; pressure-loss and wear performance require field-specific testing.



BIOSLICK™ FLOWSHIELD / 02

Where it may fit

High abrasion or hydraulic burden can make replaceable contact surfaces economically useful.

ENERGY

Screen oilfield fluid and produced-water transfer duties.

MINING

Assess slurry transport with abrasive solids and high pumping cost.

RETROFIT

Compare lining existing piping against replacement or frequent cleaning.

OPERATIONS

Define access, installation, inspection and liner change-out methods.

The application screen compares lifecycle cost, hydraulic performance and reliability.



BIOSLICK™ FLOWSHIELD / 03

Qualification path

A practical pilot ties materials performance to the economics of the full line.

BASELINE

Record flow, pressure drop, wear and maintenance cost.

MATERIALS

Test fluid compatibility, erosion, adhesion and end-seal integrity.

PILOT

Measure pressure loss and durability under representative flow and solids.

SCALE

Define manufacturing, inspection, replacement and customer-site installation.

A controlled line segment is the logical first field proof.