

# SAERTEX-LINER® GAS

WRC-CERTIFIED



**Pressure-resistant, fully structural and CO<sub>2</sub>-optimized. The WRC-certified SAERTEX-LINER® GAS is the first choice for the trenchless rehabilitation of gas supply lines using the UV-CIPP process. Two liner options are available, each designed to match the specific application:**

- Type S+: a cost-effective alternative for low operating pressures up to 29 psi
- Type S+ XR: engineered to accommodate higher pressures up to 478 psi

## SUPERIOR-SAFE-PERFORMANCE

### WRC-CERTIFIED FOR GAS APPLICATIONS

Our SAERTEX-LINER® GAS is certified by the independent Water Research Center (WRC) for the rehabilitation of steel and cast-iron gas supply lines. In addition to mechanical tests, the GRP pipe liner also fulfills the requirements for permeability and chemical resistance against a wide range of gases.

### CUSTOMIZED SOLUTIONS WITH SUPPORT SERVICES

You, too, can benefit from our wide range of additional services. Our experienced experts and engineers provide support to ensure the smooth progress of your construction project from conception to completion.

### LOW WALL THICKNESS OPTIMIZES HIGH FLOW RATE

Smooth surfaces coupled with low wall thickness relative to diameter maximize flow rate in supply pipes.

### SAERTEX-LINER® UPgreen: CO<sub>2</sub>-OPTIMIZED

The climate-friendly manufacturing process for our UP resin systems saves an average of 250,000 kg of CO<sub>2</sub> per quarter. On request, we can provide you with a certificate showing the CO<sub>2</sub> savings achieved by your projects.



Host pipe

UV light and protective outer foil

Resin encapsulating barrier

ECR fiberglass NCF, type S+ or S+ XR, resin-impregnated with UPgreen, CO2-optimized

Inner foil: Pressure with barrier function

# UV-CIPP FOR GAS PIPES

**1** Select your UV-CIPP product application.

PRODUCT APPLICATION	SAERTEX-LINER® GAS
Utilization	Gas
Resin type	UP
Temperature and chemical resistance	+
Styrene-free	no

**2** Engineered to match profile, dimensions and application requirements.

DESIGN	TYPE S+	TYPE S+ XR
Host pipe profile	Circular	Circular
Application	Pressure	Pressure
Operating pressure [psi]	up to 29	up to 478
Fully structural*	☉	☉
Diameter [inch]	10–48	10–48
Structural wall thickness [mm]	4–12	4.3–12.3

**3** Outer foils are standard. Inner foil can be selected based on application.

FOILS		
Outer foils:		
– Protective foil for ease of installation, UV light protection	☉	☉
– Resin encapsulating barrier	☉	☉
Inner foil with barrier function:		
– Pressure	☉	☉

MECHANICAL CHARACTERISTICS	TYPE S+ and TYPE S+ XR
Short-term circumferential E modulus [psi]	≥ 2,973,270
Long-term circumferential E modulus [psi]	2,320,600
Short-term bending E modulus [psi]	≥ 2,436,630
Short-term bending stress [psi]	≥ 39,160
Long-term bending stress [psi]	30,455
Reduction factor (acc. to DIN EN 761):	
– 50 years [after 10,000 h]	78%

\* Design classification for pressure applications | Class IV AWWA M28

See a virtual lining project!



## BENEFIT FROM OUR COMPREHENSIVE CUSTOMER SERVICE

### PROJECT SUPPORT FROM BEGINNING TO END

- ☉ Engineering services, e.g. feasibility studies, structural calculations according to DWA and ASTM, approvals, etc.
- ☉ Practical training programs for your team
- ☉ Technical support from our application engineers
- ☉ UV-CIPP installation equipment to rent or buy

### CLASS A: FULLY STRUCTURAL

The tight-fitting, independent pipe liner resists inner and outer loads and withstands pressures up to 478 psi. It is also certified to Class A (DIN EN ISO 11295) and to Class IV (AWWA M28).