ASOE

COMPLETE TRENCHLESS SOLUTIONS

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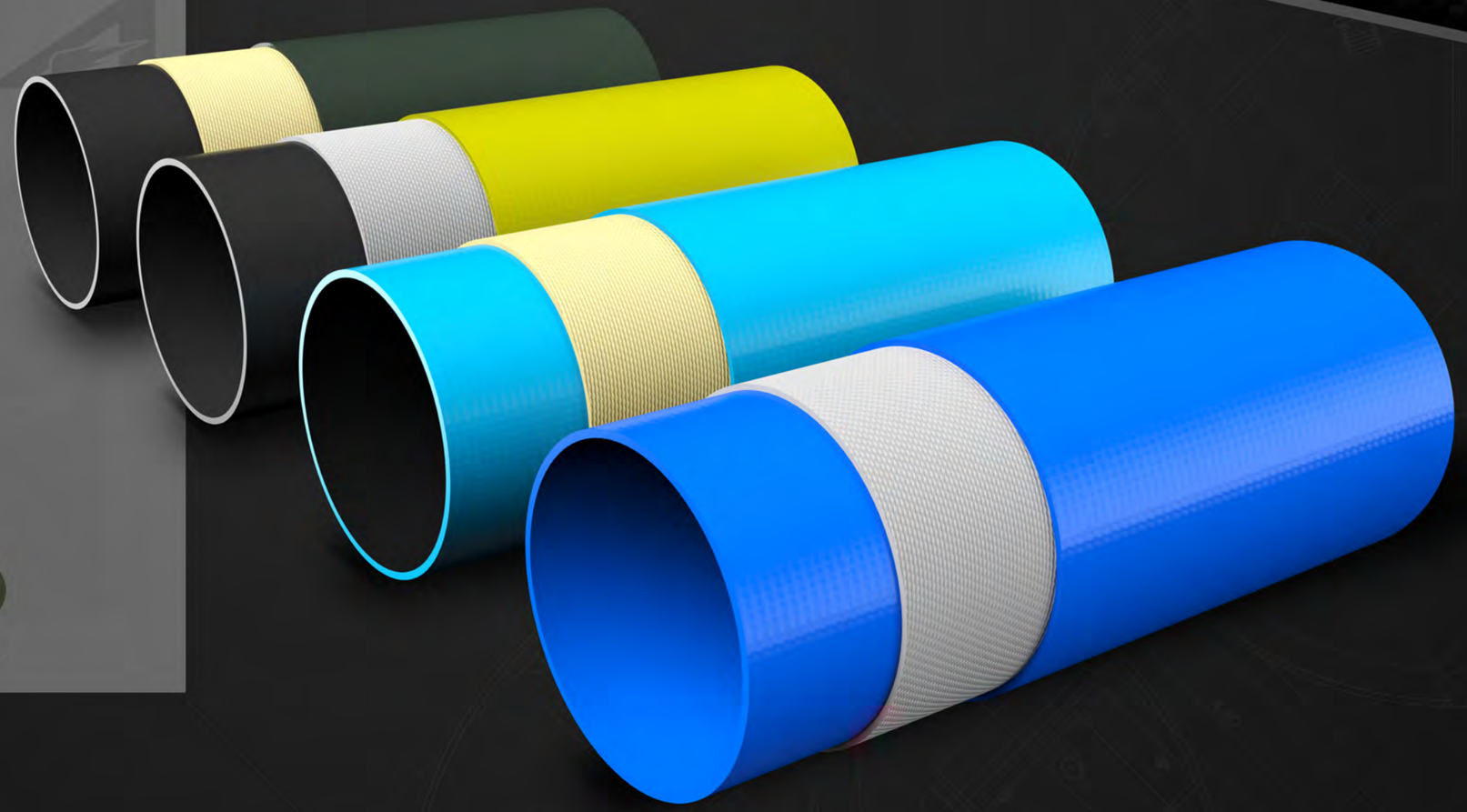
PRESSURE LINER SOLUTIONS

ASOE's Liner Solutions

Our Pressure liners are classified into 4 different categories:

- WATER LINER
- HOT WATER LINER
- GAS LINER
- OIL LINER

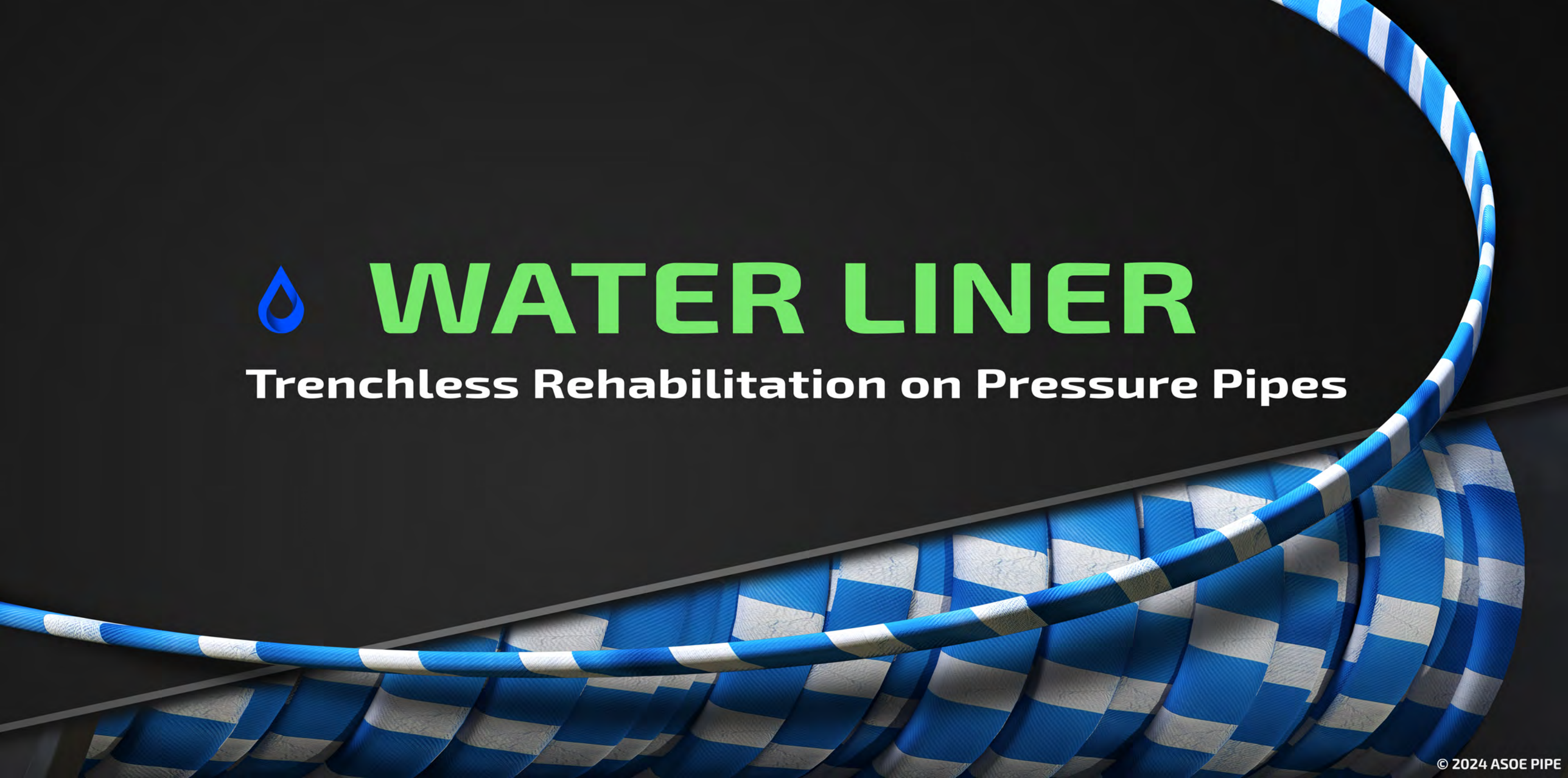
WATER HOT WATER GAS OIL



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WATER LINER

Trenchless Rehabilitation on Pressure Pipes



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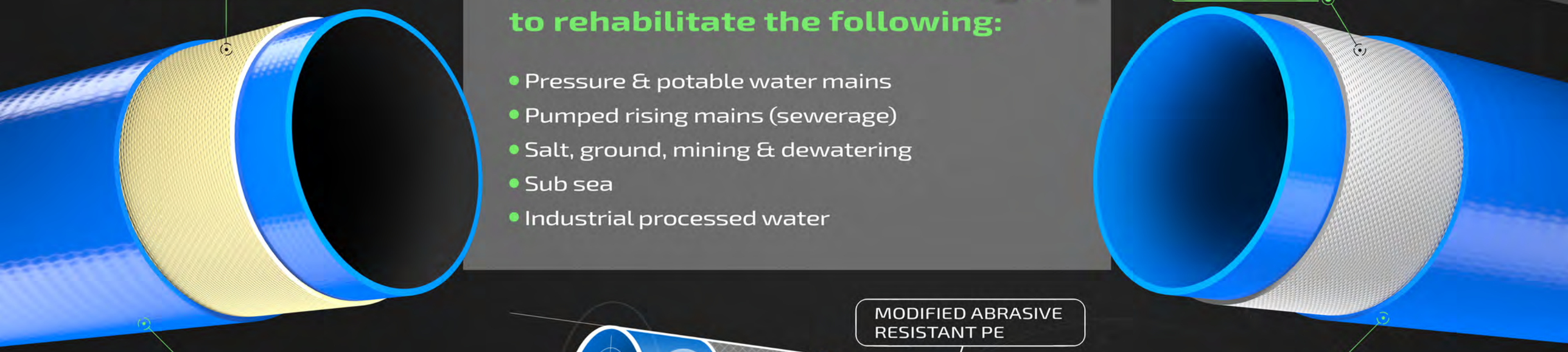
WATER LINER SOLUTION

KEVLAR / ARAMID

The Water Liner Solution is used to rehabilitate the following:

- Pressure & potable water mains
- Pumped rising mains (sewerage)
- Salt, ground, mining & dewatering
- Sub sea
- Industrial processed water

POLYESTER



MODIFIED ABRASIVE RESISTANT PE

MODIFIED PE LAYER

POLYMER REINFORCING

HIGH PRESSURE / HIGH TEMPERATURE

NORMAL PRESSURE / NORMAL TEMPERATURE

WATER

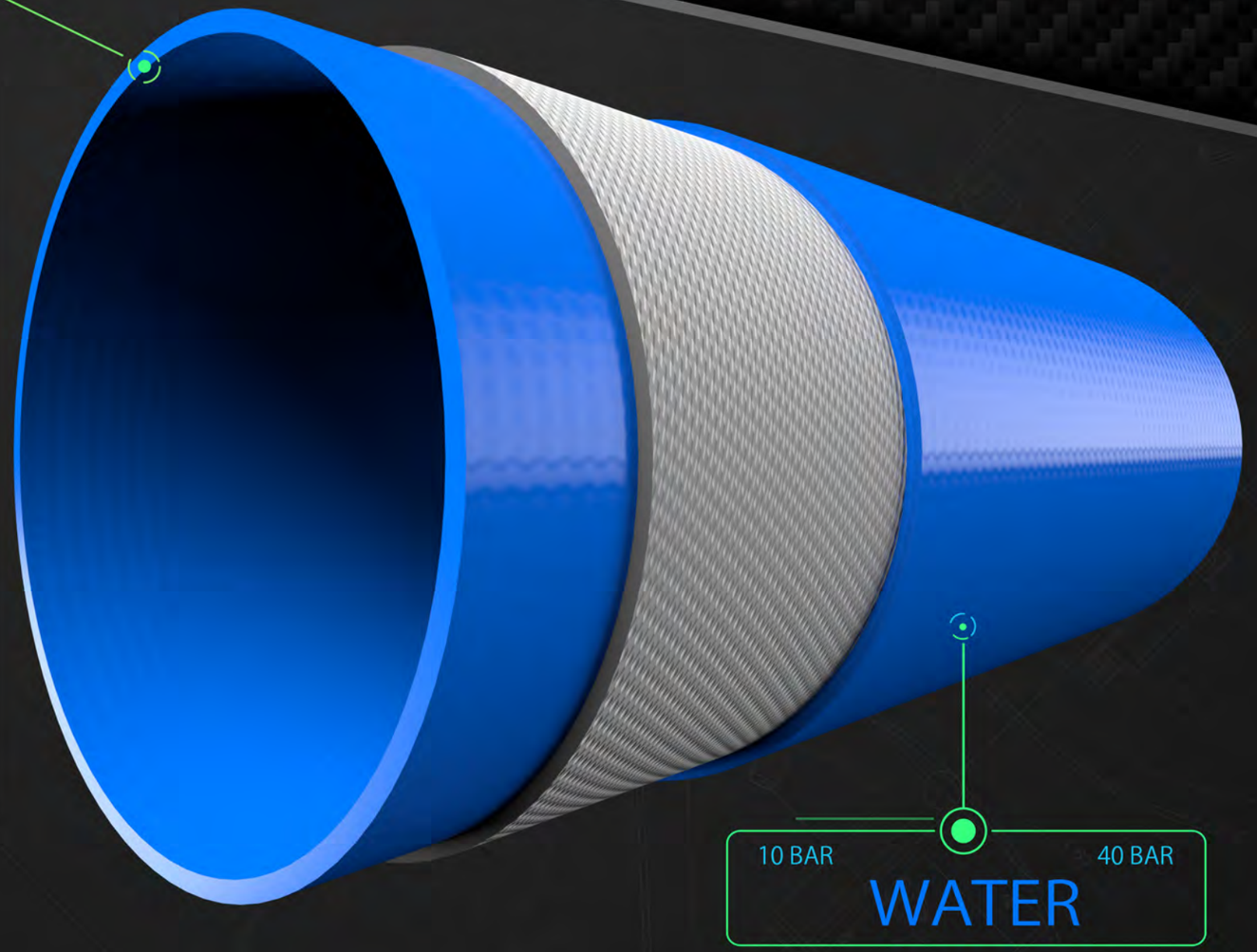
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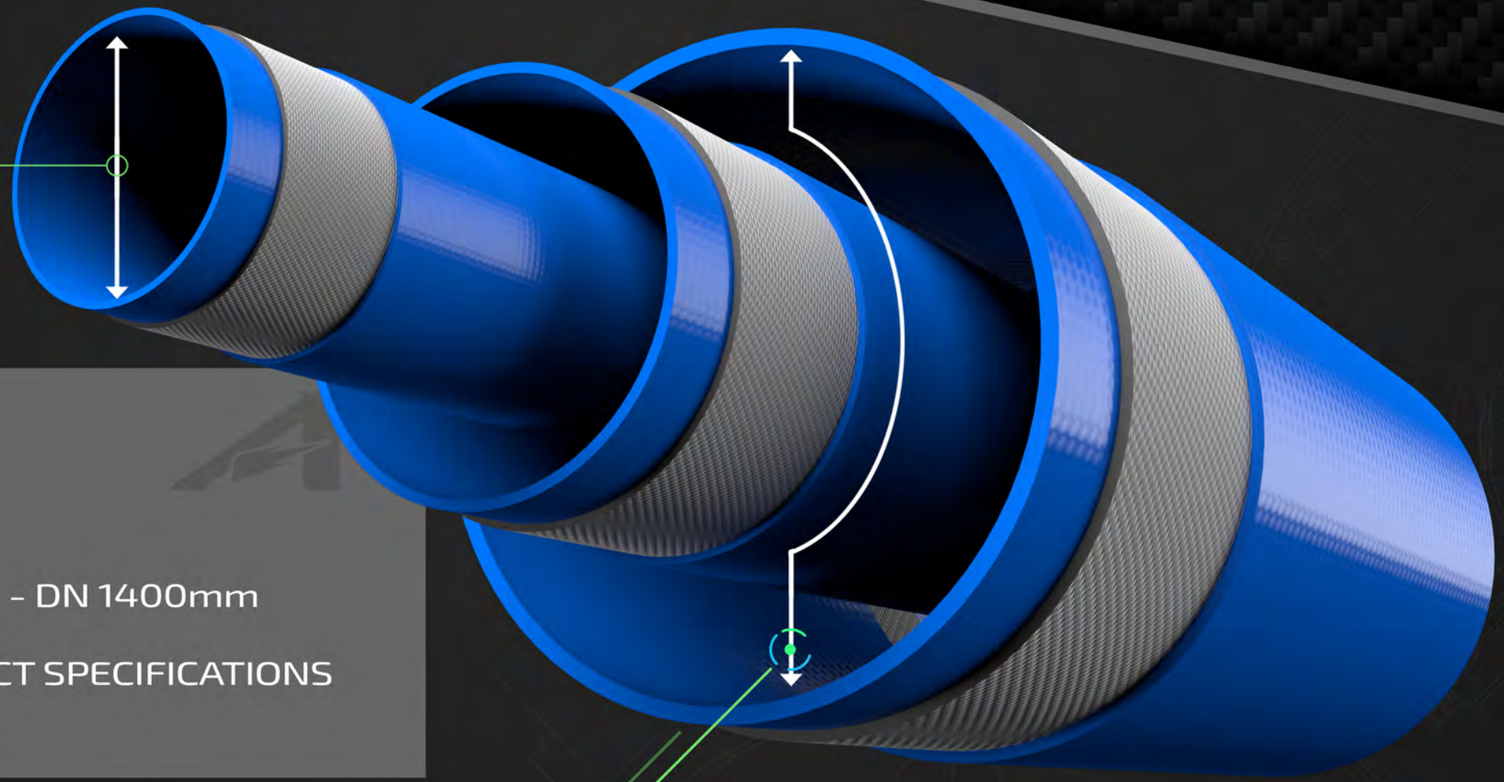
WATER LINER SOLUTION

Technical Specification

Trenchless Solution Type:	Semi-structural pipe rehabilitation
ID of host pipe:	DN 50mm – DN 1400mm
Max Length of each installation:	Depends on diameter
Max Operating Pressure:	1 – 4 Mpa (10 – 40 Bar)
Max Bursting Pressure:	3 – 12 Mpa (30 – 120 Bar)
Temperature of medium:	40° C - 70° C (104°F - 158°F)
Installation mode:	Pull in U-shape Liners
Raw Materials:	High tenacity fabric reinforcement layer, abrasion resistant PE cover, PE tube
Abrasion resistance:	Tailored to specific application
Wall thickness:	6mm – 8mm
Pulling speed:	up to 400m/h
Service Life:	50 years



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Diameter of Liners

Our Water Liner ranges from DN 50mm - DN 1400mm

WE CAN MAKE UP THE ID TO YOUR EXACT SPECIFICATIONS

WATER

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HOT WATER LINER

Trenchless Rehabilitation on Pressure Pipes



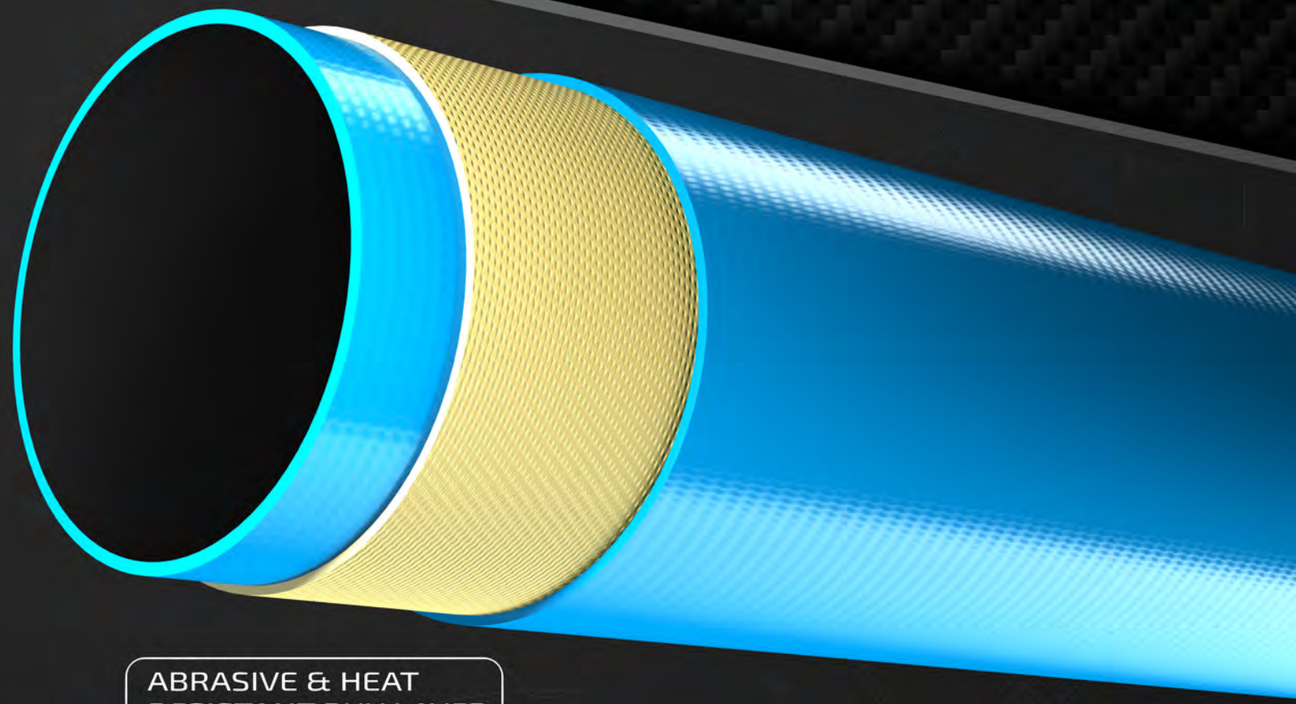
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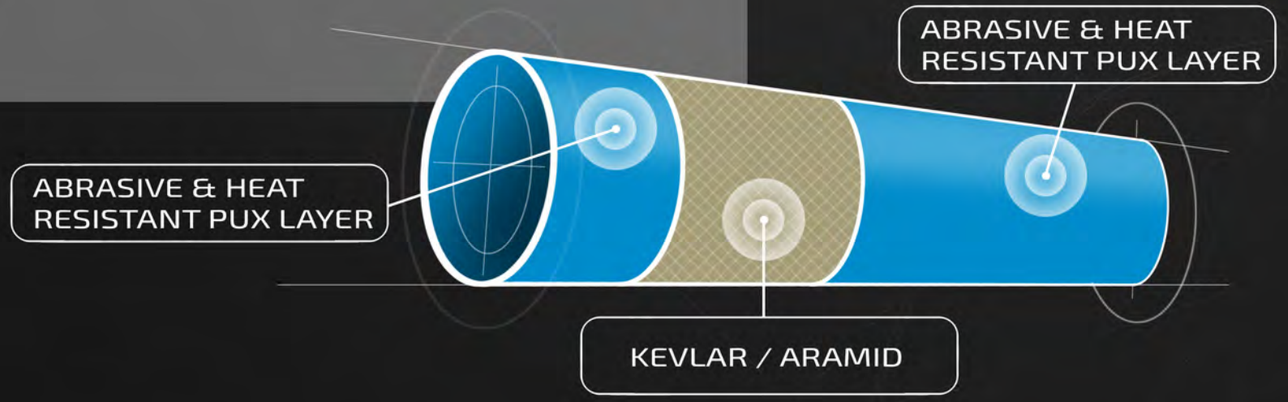
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HOT WATER LINER SOLUTION

The Hot Water Liner Solution is used to rehabilitate the following:

- Municipal district heating
- Snow & ice melting pipes
- Power generation plants
- Manufacturing & industry
- Food processing
- Chemical plants
- Agriculture





HOT WATER

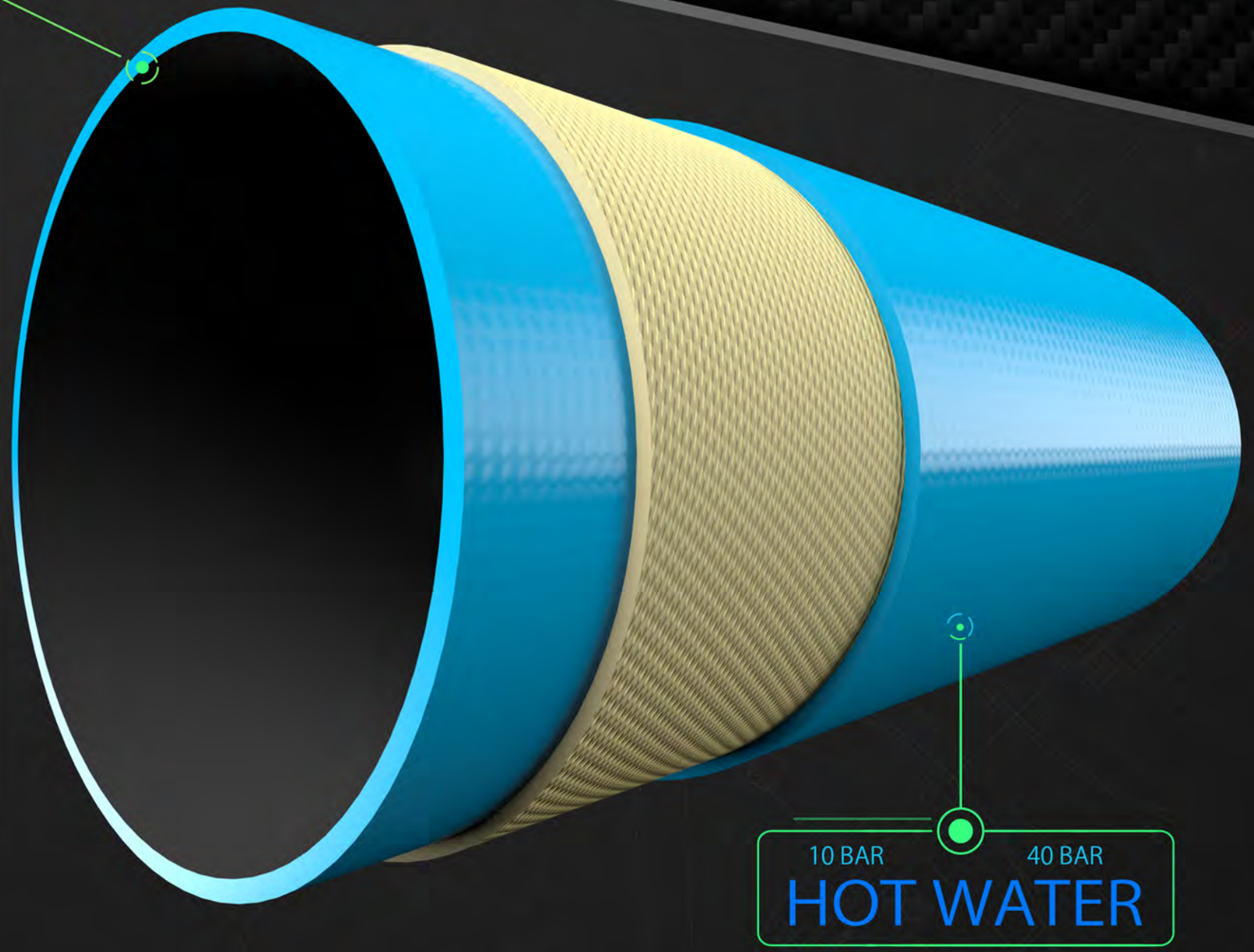
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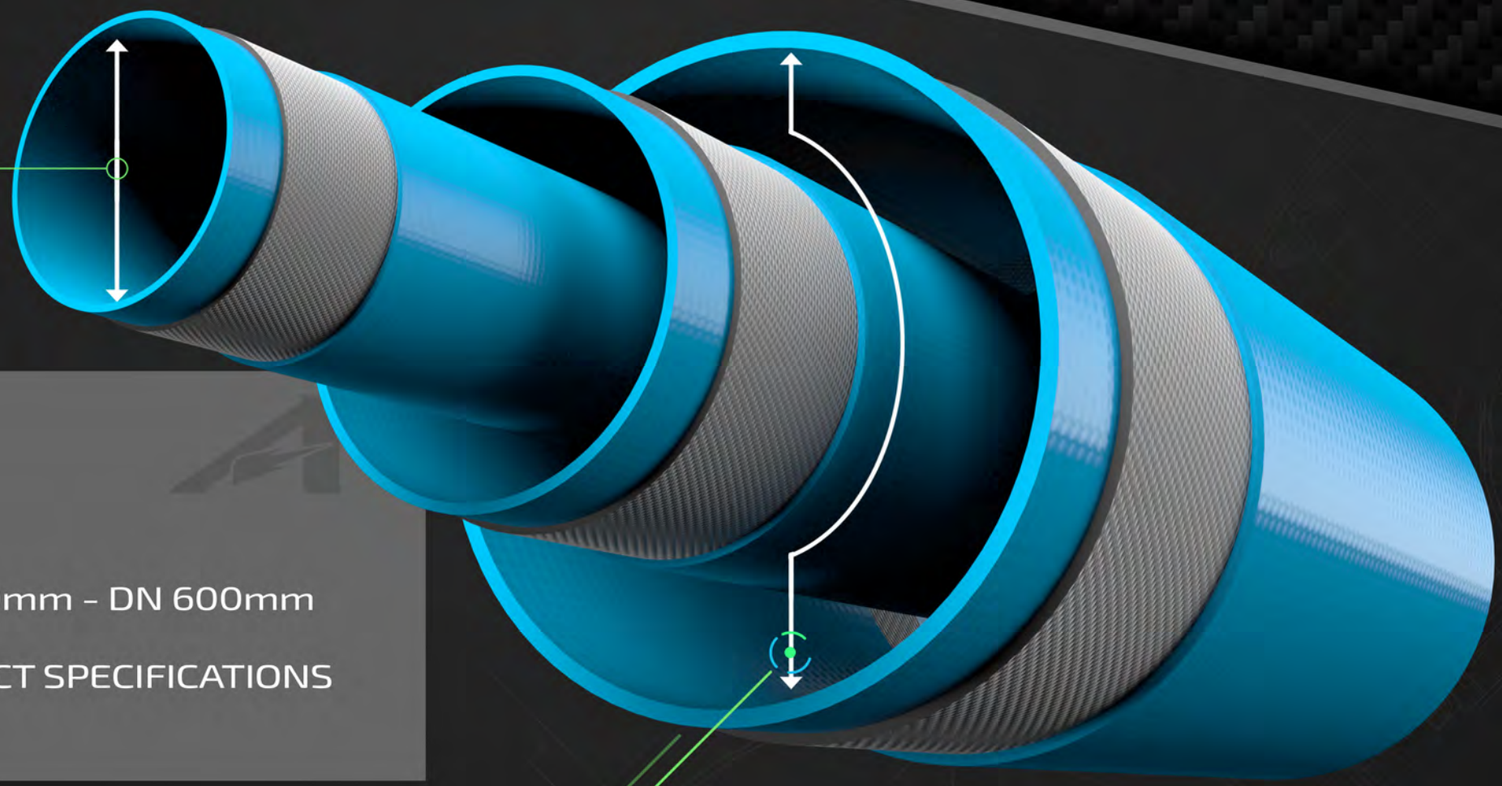
HOT WATER LINER SOLUTION

Technical Specification

Trenchless Solution Type:	Semi-structural pipe rehabilitation
ID of host pipe:	DN 50mm – DN 600mm
Max Length of each installation:	Depends on diameter
Max Operating Pressure:	1 – 4 Mpa (10 – 40 Bar)
Max Bursting Pressure:	3 – 12 Mpa (30 – 120 Bar)
Temperature of medium:	40° C - 125° C (104°F - 257°F)
Installation mode:	Pull in U-shape Liners
Raw Materials:	High tenacity fabric reinforcement layer, heat resistant PUX cover, heat resistant PUX tube
Abrasion resistance:	Tailored to specific application
Wall thickness:	6mm – 8mm
Pulling speed:	up to 400m/h
Service Life:	40 years



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Diameter of Liners

Our Hot Water Liner ranges from DN 50mm - DN 600mm

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HOT WATER

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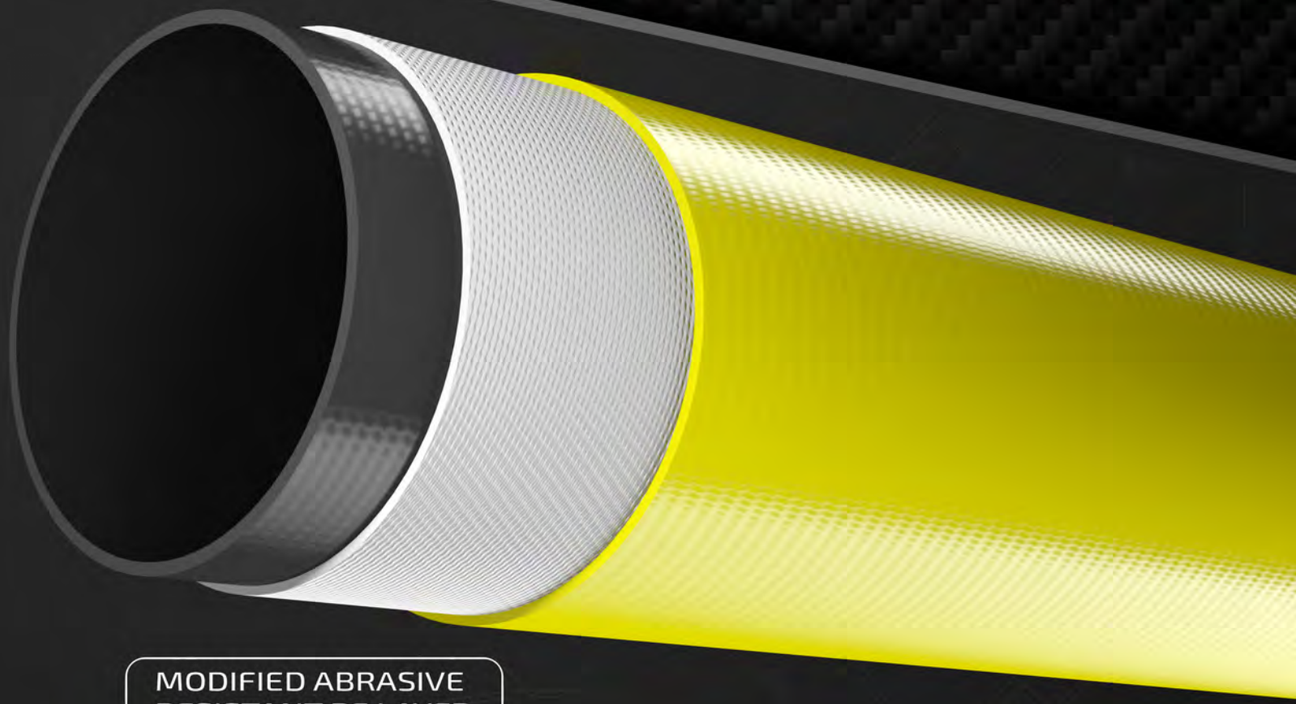
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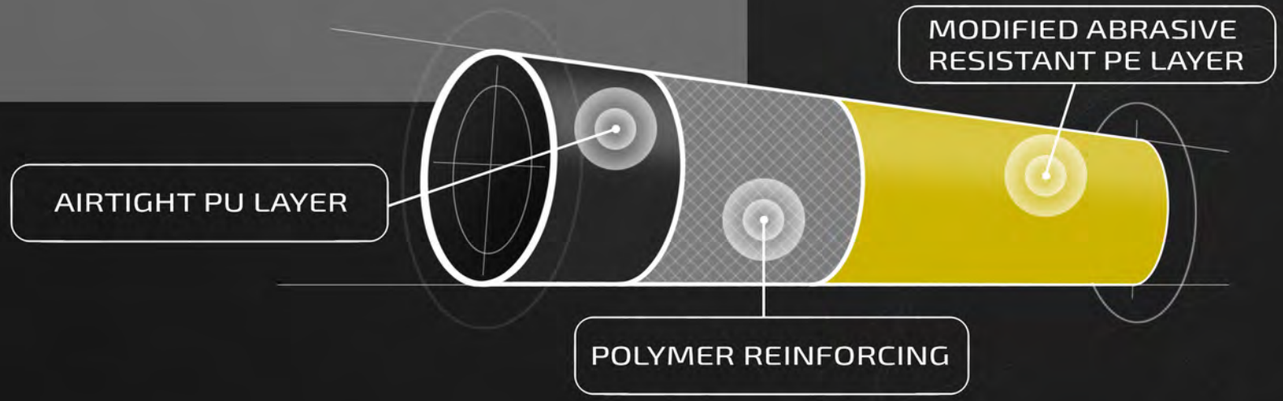
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GAS LINER SOLUTION

The Gas Liner Solution is used to rehabilitate the following:

- Natural, Coke oven gas
- Methane, Propane, Butane
- Hydrogen, Nitrogen
- Carbon dioxide, Carbon monoxide
- Oxygen, Hydrogen sulphide
- Biogas





GAS

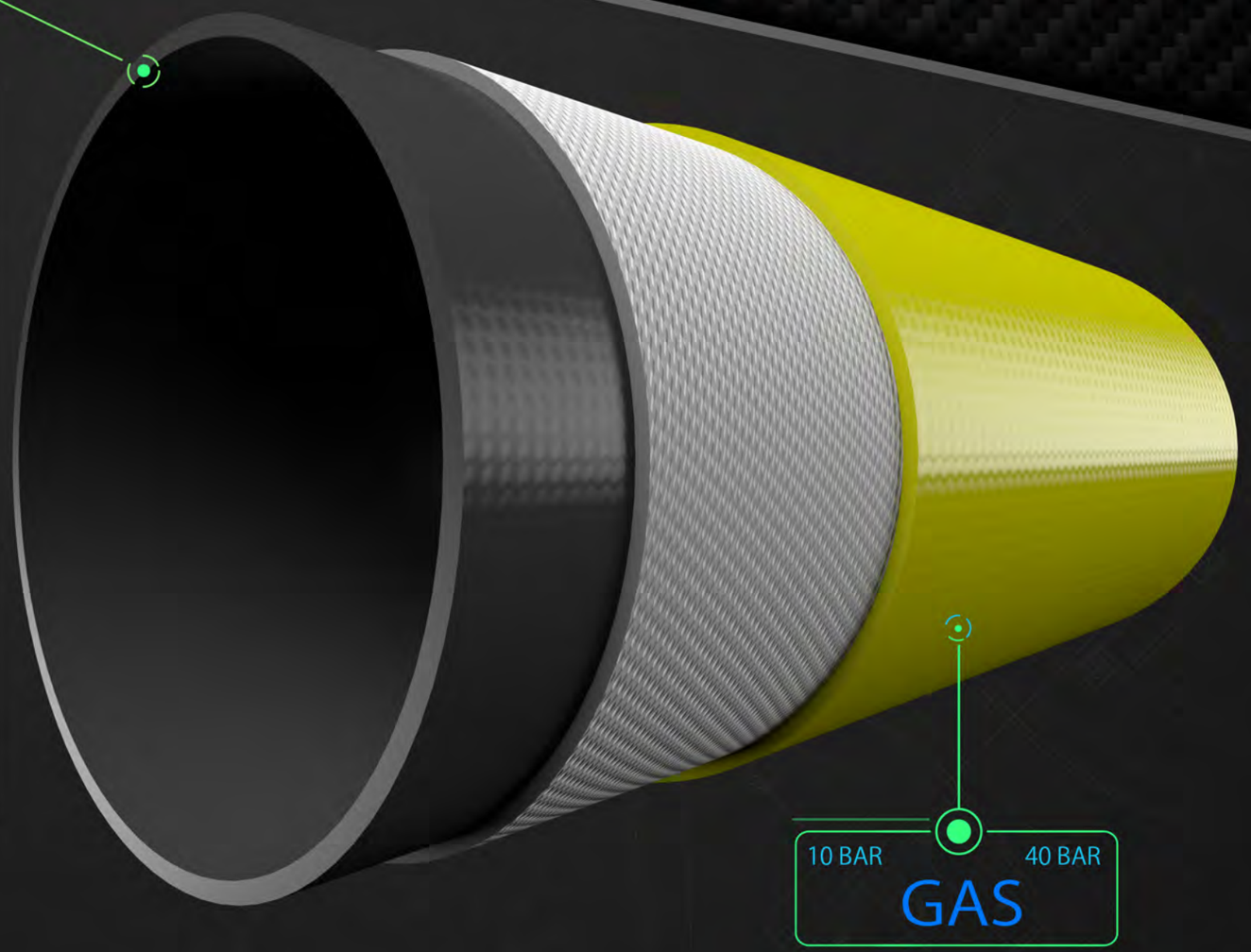
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GAS LINER SOLUTION

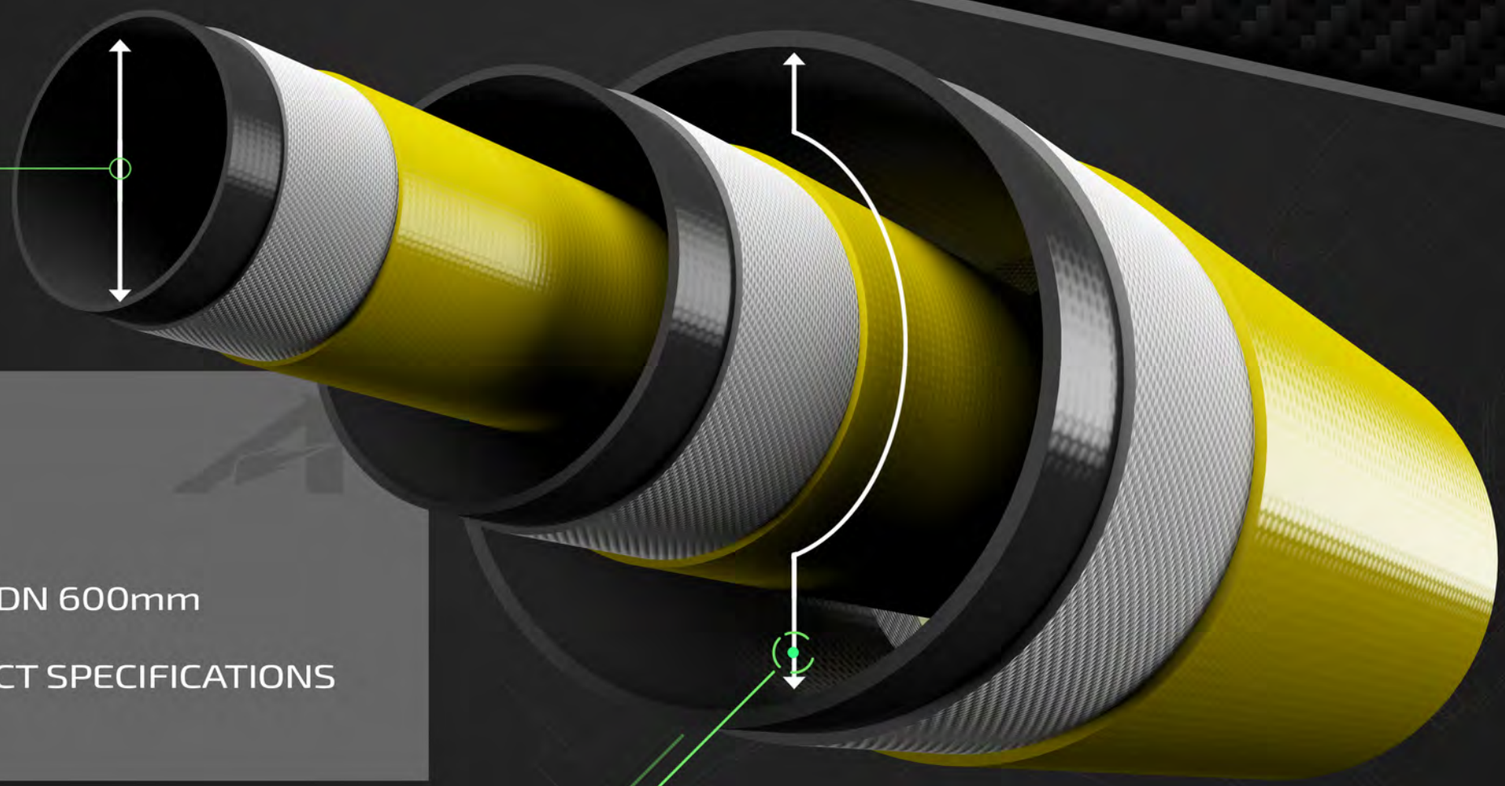
Technical Specification

Trenchless Solution Type:	Semi-structural pipe rehabilitation
ID of host pipe:	DN 50mm – DN 600mm
Max Length of each installation:	Depends on diameter
Max Operating Pressure:	1 – 4 Mpa (10 – 40 Bar)
Max Bursting Pressure:	3 – 12 Mpa (30 – 120 Bar)
Temperature of medium:	40° C - 70° C (104°F - 158°F)
Installation mode:	Pull in U-shape Liners
Raw Materials:	High tenacity fabric reinforcement layer, abrasion resistant PE cover, PE tube, airtight PU tube
Abrasion resistance:	Tailored to specific application
Wall thickness:	6mm – 8mm
Pulling speed:	up to 400m/h
Service Life:	40 years



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Diameter of Liners

Our Gas Liner ranges from DN 50mm - DN 600mm

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GAS

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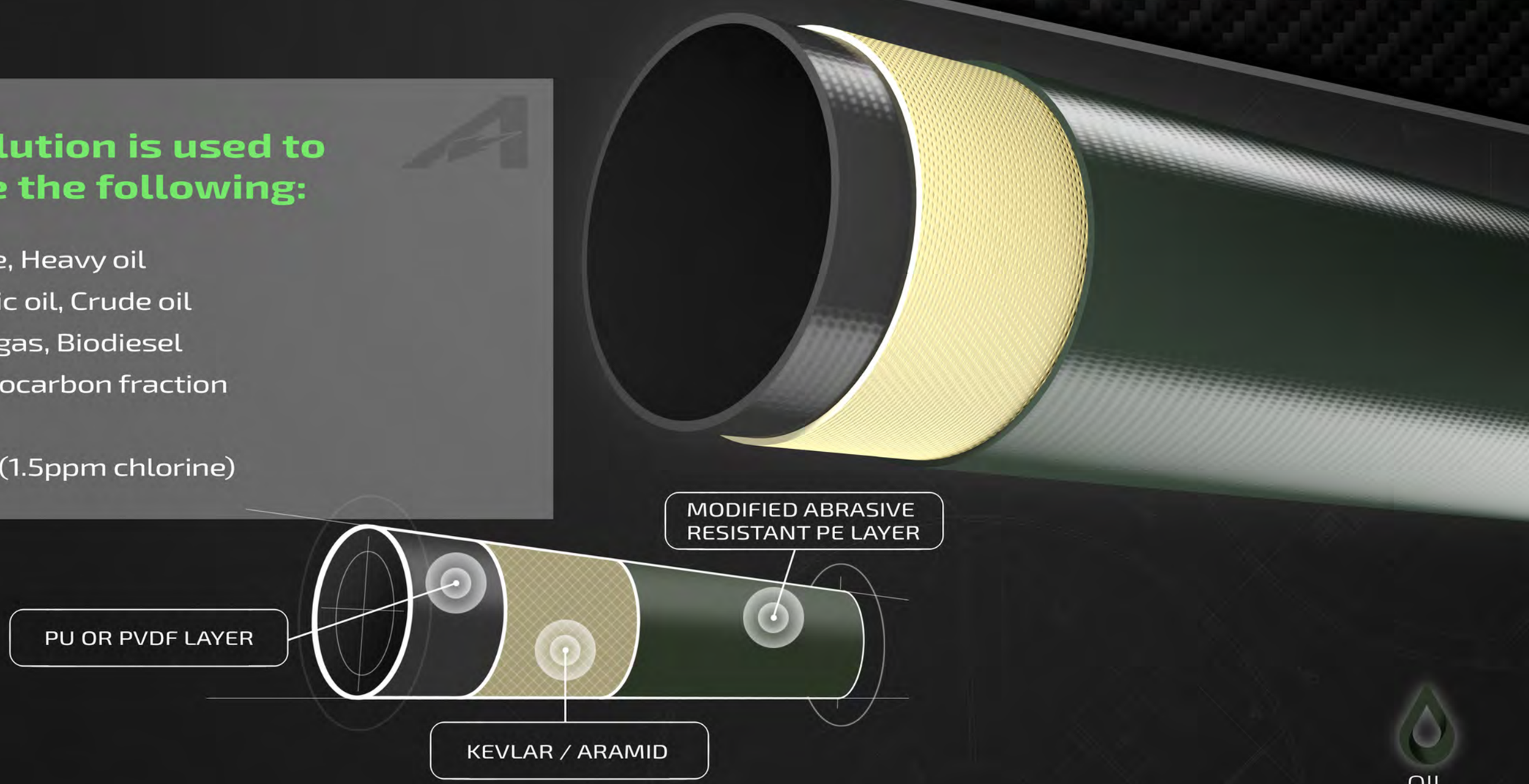
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OIL LINER SOLUTION

Oil Liner Solution is used to rehabilitate the following:

- Diesel, Kerosine, Heavy oil
- Avgas, Hydraulic oil, Crude oil
- Heating oil, Mogas, Biodiesel
- Wide light hydrocarbon fraction
- Gasoil, Pygas
- Chlorine water (1.5ppm chlorine)



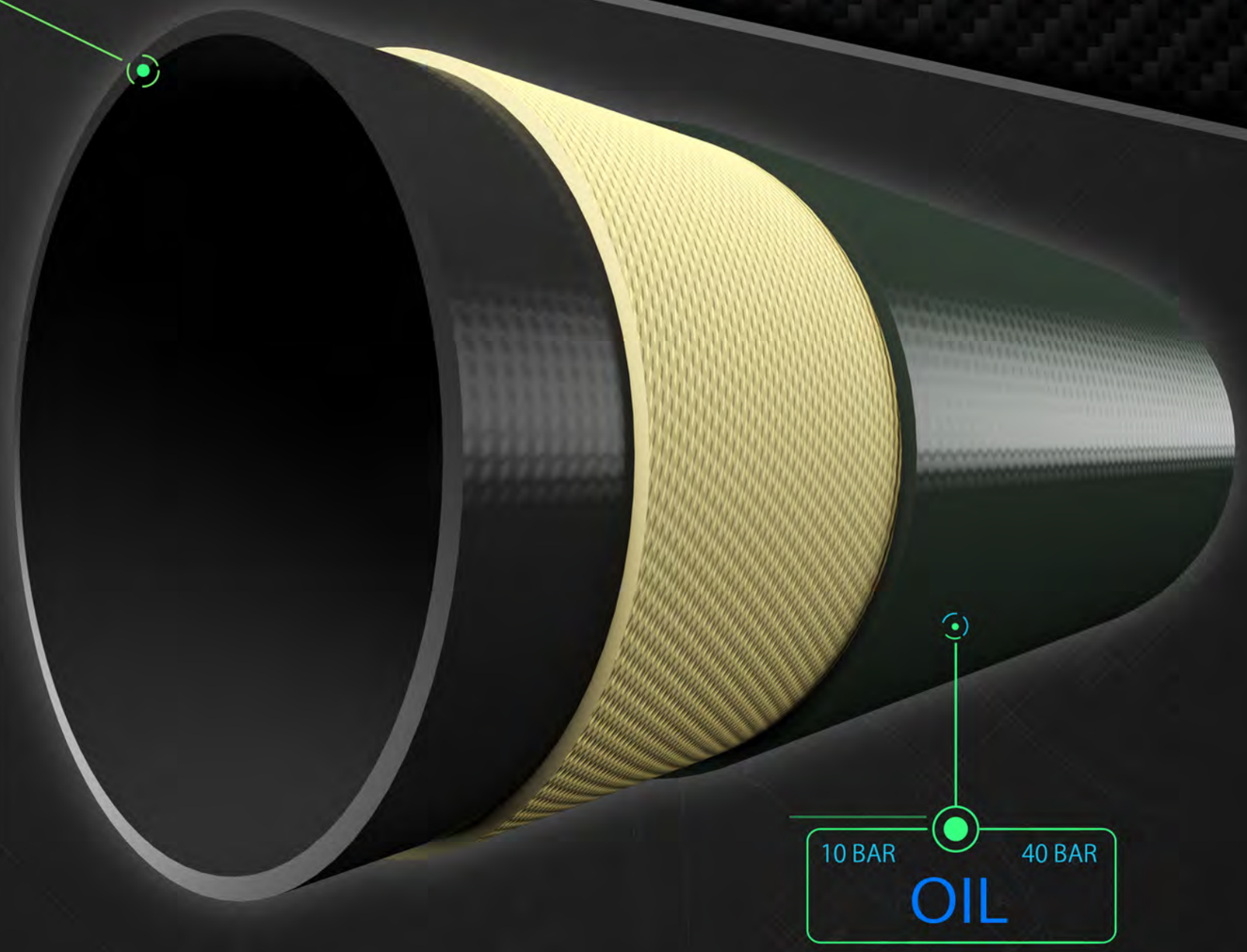
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OIL LINER SOLUTION

Technical Specification

Trenchless Solution Type:	Semi-structural pipe rehabilitation
ID of host pipe:	DN 50mm – DN 600mm
Max Length of each installation:	Depends on diameter
Max Operating Pressure:	1 – 4 Mpa (10 – 40 Bar)
Max Bursting Pressure:	3 – 12 Mpa (30 – 120 Bar)
Temperature of medium:	40° C - 70° C (104°F - 158°F)
Installation mode:	Pull in U-shape Liners
Raw Materials:	High tenacity fabric reinforcement layer, abrasion resistant PE cover, oil-resistant PU tube or oil and heat-resistant PVDF tube
Abrasion resistance:	Tailored to specific application
Wall thickness:	6mm – 8mm
Pulling speed:	up to 400m/h
Service Life:	40 years



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Diameter of Liners

Our Oil Liner ranges from DN 50mm - DN 600mm

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Contact Details

- www.asoe.co.nz
- 5 Dakota Place, Bell Block, 4312, New Zealand
- sales@asoenz.com
- +64 27 281 2310
- +64 67 55 0309

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