

HIGHLY INSULATED HEAT-TRACED PIPE-IN-PIPE



PERFORMANCES	 U values of 0.3 to 0.4 W/(m².K). Cooldown times up to 60 Hrs (in passive mode). Hydrate mitigation @ < 10 W/m. Usable in continuous @ < 7 W/m (Viscosity/WAT/HAT control). Longest reach (km/kV) in industry / No induced corrosion.
COST SAVINGS	 Highly compact insulation → use of smaller diameter outer pipe. Eliminates need for looped flowline architecture. Reduces pigging or chemical inhibitor injection need. Consumes 10 to 20 times less power than DEH for same duty.
SUITABLE FOR	Reeling, bundle, or onshore.Brown field systems with limited topside capacity.

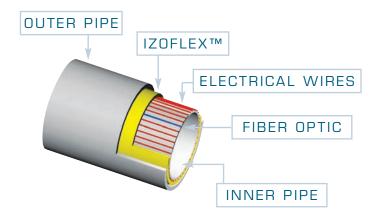
IZOFLEX[™] INSULATION.



- Izoflex[™] : Inert / Non ageing.
- As installed thermal conductivity < 7 mW/(m.K).
- Compliant to -200°C to 900 °C.
- Compressively strong \rightarrow No need for centralizers.

HEAT TRACED TECHNOLOGY :

- Izoflex[™] insulation → power consumption = 15 times less than DEH.
- Hydrate mitigation = 10 W/m / Maintenance above WAT = 7 W/m.
- Unlimited length : multiple power supply possible (~1KV = 20 to 50 km).
- Temperature monitoring through fiber optic.
- Electric wires temperature limitation : 250°C.

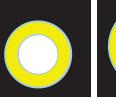


THERMAL PERFORMANCES

Insulation materials	Izoflex™ technology	Aerogels (with spacers)	PU Foam (with spacers)	Wet insulation
Thermal conductivity in mW/(m.K) (as installed value)	7	16-20	25-30	100-150

MOST COMPACT PIP FOR A GIVEN U VALUE.





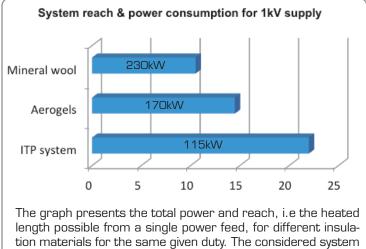
IZOFLEX[™] PIP

AEROGEL PIP PU FOAM PIP

Advantages for a reeled Heat Traced PIP

- Reduced top tension.
- Increased on bottom stability.
- Longer length on vessel reel.

REACH & POWER :



is a 6"/10" PIP and a 1kV supply voltage.

Advantages for the operator :

- Reduce power consumption.
- Lower CAPEX (no dedicated generator...)
- Lower OPEX.
- More flexible in operation.

ITP'S HEAT TRACED **PIP** : A PROVEN & RECOGNIZED TECHNOLOGY OF PIPE IN PIPE :

- Project in Canada for 22km heat traced pipeline at 150°C (2012).
- Qualified by IOCs since 2011.
- Fully DNV Qualified.



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For references, visit our web site **→**