

C-PiPe® 120 DW

The LOGSTOR C-PiPe® 120 DW is a deep water HT thermal insulation solution for offshore pipelines able to sustain any water depths. The system is developed for a mobile plant, optimal logistic and rapid production method. It can be installed with any pipe-lay method.

PRODUCT DESCRIPTION

- Steel inner pipe without AC Coating (FBE optional)
- Installable by reeling or S-lay
- Two-layer insulation of Flexilon RS-3173 and RS-3060 cast alloy insulation
- Insulation thickness 15 to 100 mm
- U-value between 2.0 - 15.0 W/m²K
- Lambda value 0.186 W/mK
- Operation temperature up to 120°C (135°C in test)
- System can be used at any water depth
- Anode protection system (when required)



- A: Steel pipe
- B: Fusion Bonded Epoxy (if required)
- C: Thermal barrier
- D: Insulation layer

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APPLICATION PROCESS

Property	Test Specification	RS-3060			RS-3173		
		Temp 23°C ± 2°C	Max. rated Test Temp 95°C	Min. rated Test Temp 0°C	Temp 23°C ± 2°C	Max. rated Test Temp 120°C	Min. rated Test Temp 0°C
Thermal Conductivity	ISO 8301 (FOX 50)	0.186 W/mK	0.186 W/mK	-	0.185 W/mK	0.199 W/mK	-
Specific Heat Capacity	ISO 12736	1.755 J/K	2.116 J/K	-	0.978 J/K	0.969 J/K	-
Water Absorption	ISO 12736	2.4% @ 12 months	7.1% @ 12 months	-	1.3% @ 12 months	8.4% @ 12 months	-
Density	ISO 1183	1,150 kg/m³	-	-	1,156 kg/m³	-	-
Tensile Properties	ISO 527	12.6 MPa	2.8 MPa	28 MPa	32 MPa	6 MPa	53 MPa
Hardness	BS ISO 7619-1:2004	95 Shore A	-	-	73 Shore D	-	-

COATING SYSTEM - MAIN FEATURES

- LOGSTOR C-PiPe system uses the Rosehill polymer alloys combining the processing advantages and toughness of polyurethanes with the temperature resistance and adhesion of epoxies in one single application
- The system offers high insulation performance comparable to multi layer PP systems
- It can be installed using all pipe-laying methods, including reeling
- The insulation is moulded to the pipe ensuring fast production process with precise thickness tolerance
- Cutback shape tailored to the exact field joints requirements
- The same material is used on the field joint and the bends, fittings etc. eliminating all interface issues and ensuring end-to-end protection
- Our plant is designed to be mobile, and can be set-up at any relevant project location

PLANT CAPABILITIES

- Pipe diameter 6" to 24" (168 mm to 610 mm)
- Mould customized to the pipe lengths including double joints 24.4 m (80 ft)
- Pipe weight up to 20 tons
- Minimum operating service temperature -20°C
- Maximum operating service temperature +95°C

LOGSTOR

ABOUT LOGSTOR

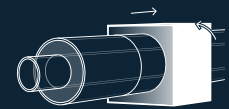
LOGSTOR is a global energy company with a focus on providing better energy efficiency to our customers. Our company is based on years and years of experience and know-how related to insulation as a means of improving energy efficiency and pipeline flow assurance.

COMPANY FACTS

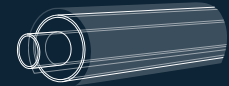
- Head Office in Denmark
- More than 50 years of experience with an extensive track record
- Around 200 000 km of delivered insulated pipes
- Complete end-to-end solutions

HEAD OFFICE

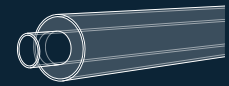
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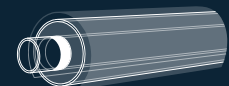
Steel pipe pre-heating
Blast cleaning
and dust removal



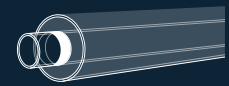
Insertion of steel pipe
in the mold



Closing of the heated mould



Application of the 1st layer -
thermal barrier



Checking the first layer and
moving to the second mold



Application of the
insulation layer



Opening of the mould
and pipe release



Pipe inspection
ready for dispatch