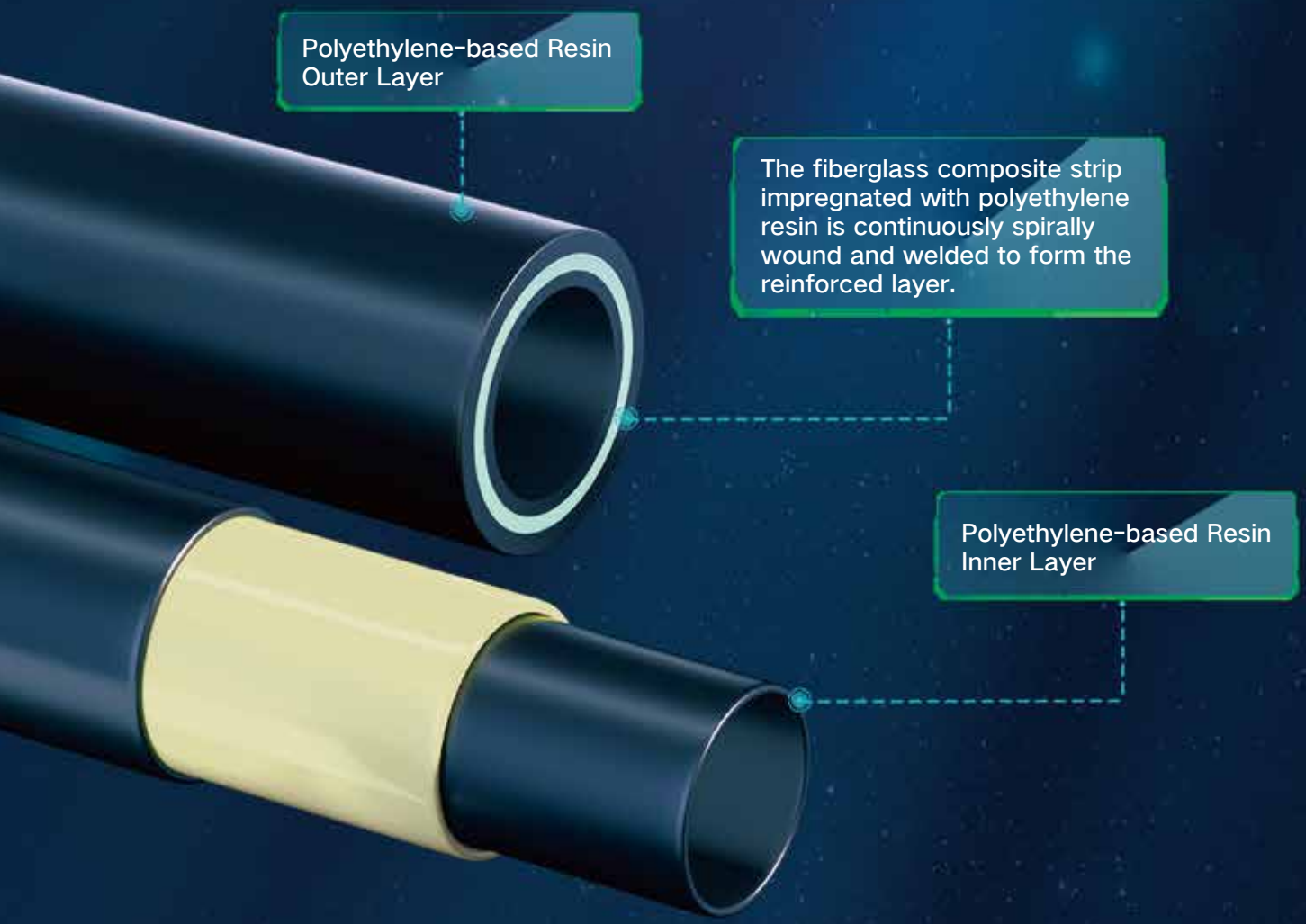
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RTP Composite Fiberglass Pipe for Oil and Gas

In order to solve the problems of corrosion, scaling, low construction efficiency and short service life associated with ordinary metal pipes, the newly developed RTP composite fiberglass pipe for oil and gas is a new type of structural wall pipe that is composed of three layers: polyethylene-based resin as the inner and outer layers, and a composite fiberglass strip impregnated with polyethylene resin as the reinforced layer through continuous spiral winding and welding. Due to the addition of the fiberglass strip reinforced layer, the pipe is characterized by its ability to withstand high operating pressures and also maintain the advantages of light weight, corrosion resistance and flexibility in plastic pipes.



LESSO GROUP (STOCK CODE: 2128.HK)

Sales Tel: (86) 757 23379211
Fax: (86)757 23378980
Website: www.lesso.com
E-mail: oversea@lesso.com

LESSO Official WeChat Account

Product Features

01 Integrated Hot Melt Bonding Structure

The liner and outer protective layer are made by using composite molding of polymer extrusion, while the reinforced layer is made of pre-impregnated fiberglass strip, providing firm bonding and fusion between subsequent layers and an outstanding composite strength.

02 High Temperature Resistance

The liner is usually made of polyethylene. Heat-resistant polyethylene, cross-linked polyethylene, polypropylene, polyamide, polyvinylidene fluoride, etc. can be used according to different working conditions.

03 New Sealing Technology

No sealing ring is used, and automatic sealing is achieved after milling the reinforced layer. The reinforced layer is not exposed, delivering high sealing efficiency and good sealing quality.

04 High Pressure Resistance

The pipe meets the standard requirements of flexible composite high-pressure transport pipes, and can be used in high-pressure oil and gas fields, currently supporting pressure up to 6.4Mpa.

05 Easy Construction and High Safety

Pipes with a specification below DN200 can be coiled for transportation. Construction and laying are convenient. The number of joints is effectively reduced, guaranteeing high safety.

Applications

Suitable for oil and gas fields, chemical pipeline networks, various gathering and transportation processes and pipeline networks in oil and gas fields (like oil, gas, and water transportation), as well as brine transportation pipelines in salt chemical industry.

Performance Standard

- SY/T 6662.2-2020 Non-metallic Composite Pipe for Petroleum and Natural Gas Industries -- Part 2: Flexible Composite Pipe for High Pressure Transmission
- SY/T 6662.5-2014 Reinforced Ultra-high Molecular Coiled Composite Pipe
- SY/T 6769.5-2016 Specifications for the Design, Construction and Acceptance of Non-metallic Pipelines

Performance Indicators

No.	Project	Indicators
1	The stability of no splitting for pressed composite pipes	No cracks on the surface
2	Longitudinal reversion	<3%
3	Short-term hydrostatic strength	Under room temperature: The nominal pressure rating multiplied by 2 for 1h, with no rupture or leakage observed. At 65℃ or design temperature (>65℃): The nominal pressure rating multiplied by 1.5 for 165h, with no rupture or leakage observed.
4	Short-term burst pressure	Under room temperature: ⩾3.0x nominal rating. At 65°C or design temperature (>65°C): ⩾3.0x nominal rating × f_t
5	Minimum bending radius (MBR) test	Meet short-term burst pressure requirements at room temperature
6	Short-term cyclic pressure	No rupture or leakage after ⩾7000 cycles
7	1000h survival test	No rupture or leakage at 65℃ or design temperature (>65℃)
8	Gas sealing performance (for gas pipes)	Under room temperature: The nominal pressure rating multiplied by 1.25 with pressure held for 3h, and pressure drop no more than 5%. No rupture or leakage is observed.
9	Tensile performance (for repair pipes)	Maximum tensile failure load ⩾ 3.0 times tensile load rating (TLR)

Pipe Specifications

Nominal Inner Diameter (mm)	Nominal Pressure (MPa)
50	2.5、6.4
60	2.5、6.4
65	2.5、6.4
75	2.5、6.4
80	2.5、6.4
85	2.5、6.4
90	2.5、6.4
100	2.5、4.0、6.4
125	2.5、4.0
150	2.5、4.0
170	2.5、4.0
200	2.5、4.0

Connection Method

The RTP composite fiberglass pipe for oil and gas can be connected in different ways for different applications, as follows:





1. Electrothermal fusion connection (Post-wiring high pressure electrofusion fittings)





2. Metal threaded clamping connection