





Albemarle Salar Chile | 2020

Working Conditions:

Flow: 120 m³/h

Pexgol Pipes:

Pexgol 200 mm (8"), class 10

Application:

Brine transport

Length:

112 m

The Challenge

Albemarle salar decided to conduct a comparative test on their brine pipelines. The objective was to test the high resistance to scale formation that Pexgol pipes possess compared to conventional high-density polyethylene (HDPE) pipes.

Installation and assembly

A Pexgol pipe was uncoiled by the main road from the salar to the parapet of 13D well, finally placing the pipe in the direction of 14D well to start the assembly according to its final disposition.

The flexibility of the Pexgol pipe allowed to fit easily into the layout, and its ability to be dragged greatly favored installation time. Thanks to its high mechanical and impact resistance, Pexgol does not require the use of a special jacket.

For connection to the pump, a flanged coupling was used: clamp-type mechanical accessory with flange adjustment.

1/5







Pexgol 200 mm class 10, 112 meters.



2/5

Assembly time: 45 minutes.



Uncoiling time: 10 minutes.









Pexgol does not require the use of a special jacket.



Flanged coupling connected to the pump.





Results

Zero scale in the Pexgol pipe after 60 days of operation.



Sedimentation comparison: HDPE pipe after 30 days of use.



Sedimentation comparison: Pexgol pipe after 60 days of use.



After 30 days of operation, the HDPE pipe has incrustations with an approximate thickness of 50 mm.



Cleaning HDPE pipes presents a great physical wear and tear for operators, as they must hit hard to loosen the scale, which means more hours spent on maintenance.





Advantages

- High resistance to wear: Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.
- **Excellent chemical and corrosion resistance:** Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.
- High temperature resistance: Working temperatures can range from -50°C/-58°F up to 110°C/230°F.
- Superb internal and external corrosion resistance: Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop

performance in some of the world's harshest environments.

Long pipe sections: Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.

• Creep and impact resistance:

Crosslinked Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

5/5

