



Water transport from a borehole with low pH.

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CMT La Laguna
Mexico | 2018
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Working Conditions:
Pressure 4.5 bar, temperature at 40°C

Pexgol Pipes:
Pexgol 160 mm (6"), Class 15;
Pexgol 225 mm (8") Class 15

Application:
Water transport

Length:
2000 m

The Challenge

The company CMT La Laguna is a jeans textile factory (Levis brand), which due to its economic growth, saw the need to expand its factory, which led to an increase in processes and as a consequence greater water usage in the manufacturing process.

For the installation of the new pipe line to transport water, the line had to cross several sections of the factory. The client initially had thought to cross the factory from the inside, but this was complex due to the large amount of machinery already installed. It would also require a lot of labor for the assembly of the connections, due to the length of the line.



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Pexgol Solution

CMT La Laguna decided to install Pexgol pipes. The pipes were offered in sections of 100, 150 and 200 meters, which greatly expedited the installation, since it required fewer connections. On the other hand, it allowed to save costs since the engineering team of Pexgol suggested the installation of the line on the roof, being able to save on supports and labor for the connections.

The client would not have been able to do this with other plastic pipes for example, since the metal sheets of the ceilings becomes very hot in summer (up to 60°C) and these would not resist.

At the factory, it was important that the pipeline look as neat as possible, and having many accessories exposed Pexgol made sure to provide a complete and visually adequate solution. Electrofusion fittings, "t" fittings and elbows were provided.

Thanks to Pexgol, the following savings were made:

- The Pexgol installation team went to the field and **trained the maintenance team** of the factory, so that they can do the installation themselves without hiring a third party to do so.
- Pexgol lent the **welding tools** so that the client did not have to invest in equipment.
- Pexgol lent an **uncoiling equipment** to speed up the installation.



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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's pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Pexgol's crosslinking piping solution can withstand high amounts of axial and radial stresses and is highly resistant to impact, fracture and fatigue. Also is completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

