



Water transportation with sulfide and cobalt particles

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Working conditions:

110°C – 1 bar

Pipes used:

Pexgol 250 mm Class 12

Application:

Water transportation

Length:

40 m

The Challenge

Moa Nickel transported water with nickel sulfide particles, this liquid formed a paste that was incrustated on the pipe walls and elbows, reducing its inside diameter. In order to repair the issue, they needed to stop the production plant, which required long maintenance time and as a consequence it decreased their productive capabilities.

The Solution

The former stainless steel pipe was replaced for a Pexgol pipe 250 mm, class 12. Even though the pipe had low thickness, it didn't have problems such as wear nor incrustations. Likewise, due to its low roughness coefficient is lower than the titanium pipes, the head losses decreased and the pipe managed to work in a lower pressure with a greater flow. Since the installation, the client didn't spend on maintenance.



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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 non-stop performance in some of the world's harshest environments.
- **Low weight:**
Compared to steel or rubber, Pexgol's solution results in reduced transportation, storage and labor costs due to lower weight per meter.
- **Long pipe sections:**
Pexgol's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risk.
- **Creep and impact resistance:**
Pexgol's crosslinking piping solution can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Our pipes are also completely resistant to cracks – even when dragged over sharp rocky terrain and coagulated salt crystals.

