



Transport of lime slurry at 100°C

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**Minas de Oro Nacional,
Mulatos Mine**
Mexico | 2015
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Working conditions:

Extreme transportation temperature
(100°C)

Pipes used:

Pexgol 90 mm (SDR 7.4)

Application:

Lime slurry transportation

Length:

150 m

The Challenge

The client needed to transport lime slurry, which is highly fouling due to the high temperatures and the liquid consistency. The lime slurry was transported at 100°C, damaging all metals and plastics that were not resistant enough. The fouling caused a considerable diminution on the inside diameter of the former pipe, sometimes even closing it completely. Previously the client used to work with a rubber hose, but due to the extreme conditions, and the lack of a flat inside surface, it wasn't enough to prevent the accumulation.

The Solution

Golan provided 50 meters of Pexgol 90 mm pipe (3" – SDR 7.4). The installation was easy due to the one section pipe, that didn't require joints. The natural curve radio was utilized to pass all the obstacles during the installation. Pexgol pipes proved to be the best solution, thanks to it's high resistant to abrasion, corrosion, encrustation and resistance to high temperatures.

The client saved costs; formerly the rubber hose cost 6 times more than Pexgol. In the other hand, the MTBF was just two month. Since the Pexgol pipe installation no maintenance has been required, not even plant stops.



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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.

