

# Safety and durability: The heart of our solutions

Pexgol and Fresnillo: Allies in innovative piping solutions for mining.



## Minera Fresnillo Mexico | 2021

### • Working Conditions

Pressure: 130 psi (pump pressure)  
Temperature: Ambient 35°C / 95°F  
Fluid: Slurry (tailings), concentration 55%

### • Pexgol Pipe

Pexgol 280 mm (12"), SDR 11

### • Application

Tailings transportation

### • Length

4800 m / 15748 ft

### The Challenge

Fresnillo, a leader in silver and gold production in Mexico, faced significant issues with its existing HDPE pipeline in its mining unit. Frequent failures in mechanical joints, including detachments of stub ends, failures in thermal fusions and flanges, created a potential risk of tailings spills, raising concerns for safety and environmental impact.

### The Solution

Pexgol addressed this challenge with its scientifically proven and abrasion-resistant PE-X pipes, being up to four times more resistant than HDPE.

The electrofusion joints in Pexgol pipes ensured double safety, significantly reducing the risk of leaks. The installation was remarkably efficient, with each 120-meter roll laid out in just 20 minutes, allowing for rapid progress without compromising safety or quality.

A crucial aspect of Pexgol's service was the comprehensive training provided to Fresnillo mine staff. This training ensured that the personnel were skilled in handling and installing Pexgol pipes, particularly mastering the electrofusion process. This skill development initiative not only facilitated smoother installations but also empowered the mine team with the knowledge and confidence to maintain pipeline integrity, reflecting Pexgol's commitment to excellence and collaboration in every project.



# The Advantages of Pexgol Pipe Systems

**PEXGOL**  
X-LINKED PIPING SOLUTIONS



## 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.



## 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.



## Excellent chemical and corrosion resistance

Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.



## Long pipe sections

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



## High temperature resistance

Working temperatures can range from -50°C/-58°F up to 110°C/230°F.



## Creep and impact resistance

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.

For more information please visit:  
[pexgol.com](http://pexgol.com)

