

# Addressing Drainage Challenges with Pexgol

Pexgol: Delivering Rapid, Reliable & Long-lasting Mining Drainage Solutions



## Avino Mine Mexico | 2023

### • Working Conditions

Temperature: 21°C / 69°F  
Flow: 400 USGPM  
Pressure: 400 psi  
Fluid Components: Water

### • Pexgol Pipe

Pexgol 6", SDR 11 & 6", SDR 6

### • Application

Mine Dewatering

### • Length

720 m / 2372 ft

## The Challenge

Minera Mexicana de Avino, with its vast gold and silver production operations near Durango, Mexico, faced a significant challenge. The company had been relying on HDPE piping for mine drainage. However, issues with pipe joints began to arise, which prompted the search for a more reliable and effective alternative. With a strategic focus on the acquisition of advanced exploration and mining properties, and a commitment to environmentally responsible operations, a durable and efficient drainage solution was critical.

## The Solution

Recognizing the challenges, Pexgol provided a robust solution with its 480 meters of 6-inch SDR6 piping (2 coils) and 240 meters of 6-inch SDR11 piping (1 coil). These were employed across three separate lines, each measuring 240 meters (787.4 feet). Pexgol's unique attributes, such as rapid installation, long lifespan, and extended pipe lengths, directly addressed the challenges posed by the existing HDPE pipes.

The piping was installed in a ventilation duct where the ambient temperature ranges between 40° and 60°C (104° and 140°F), allowing the client to achieve substantial savings. Without installing the piping through the ventilation duct, they would have had to make a special borehole or install it via a ramp.

The installation was meticulously planned, especially since the existing path presented various challenges, including proximity to a fiber optic cable and the transit of machinery. With careful coordination, the installation was swiftly achieved, impressing the client with the speed and efficiency of the maneuver. The use of flanged couplings and load clamps ensured a secure and sturdy connection.

The feedback from Avino was overwhelmingly positive, expressing surprise and satisfaction at the rapidity of the maneuvering and installation process, reinforcing the benefits of choosing Pexgol.



# 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)

