

# Overcoming Installation Hurdles and Enhancing Operational Efficiency



Streamlining Mine Dewatering and Water Transportation with Pexgol Pipes at Cerro Negro Mine.



 **Newmont**  
Argentina | 2022

• **Working Conditions**  
Underground Mine

• **Pexgol Pipe**  
Pexgol 63, 180, 225, 250 & 250 mm,  
class 15

• **Application**  
Mine Dewatering

• **Length**  
1100 m / 3608 ft

## The Challenge

Newmont Corporation, an American gold mining company and the world's largest gold mining corporation, owns mines in various locations worldwide, including their Cerro Negro mine located in Santa Cruz, Argentina. The mining process requires robust and efficient infrastructure, and for Newmont, the pipeline system was presenting a significant challenge.

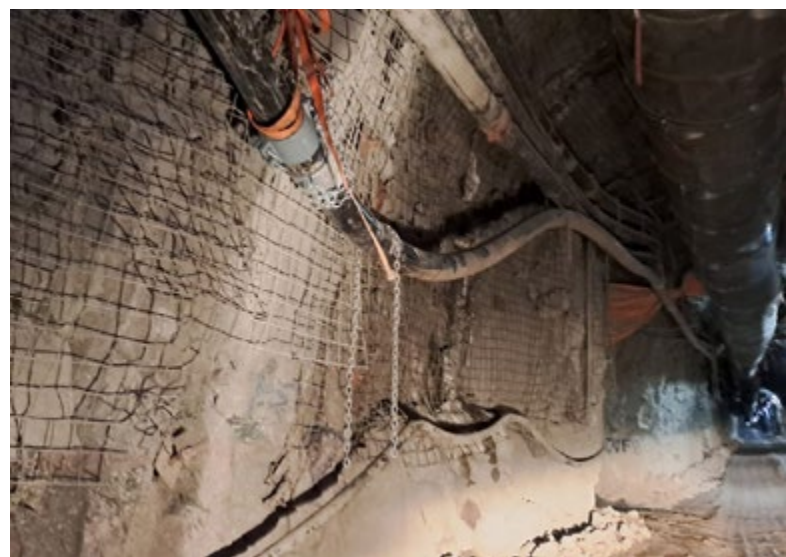
The mine needed to add dewatering lines, they previously used High-Density Polyethylene (HDPE) for their service lines, which resulted in logistical and operational problems. HDPE pipes are typically produced in lengths of 12 meters, necessitating a high degree of manipulation during installation. This was particularly challenging in a mining environment, where efficiency and safety are paramount. Furthermore, the rigid nature of HDPE piping limited its application in environments with complex terrain and demanding conditions, typical of mining operations.

## The Solution

Recognizing the limitations of HDPE and the need for a superior solution, Newmont Corporation turned to Pexgol - a PE-X pipe renowned for its durability, flexibility, and ease of installation.

Pexgol 160mm class 30, 110mm class 24, and 110mm class 30 pipes were used, extending over 1100 meters for underground mine dewatering and water transportation. The pipes were installed using double mechanical connectors and Victaulic fittings, ensuring a secure and leak-free connection.

The installation process was significantly streamlined due to the advantageous properties of Pexgol. An impressive 500 meters of pipeline were installed in just 5 hours, a testament to the efficiency of the product. Pexgol's long lengths and lightweight properties allowed the pipe to be quickly deployed down a ramp and subsequently hung in place.



# The Advantages of Pexgol Pipe Systems



## High wear resistance

Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.



## Superior external corrosion resistance

Pexgol withstands 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 endure 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 range from  $-50^{\circ}\text{C}/-58^{\circ}\text{F}$  up to  $110^{\circ}\text{C}/230^{\circ}\text{F}$ .



## Creep and impact resistance

Pexgol pipes tolerate abnormal 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)

