



## Transport of acid slurry at high temperatures

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### **Working conditions:**

Highly abrasive liquid at 80°C

### **Pipes used:**

Pexgol 335 mm, Class 10

### **Application:**

Discharge line

### **Length:**

350 m

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### **The Challenge**

Moa Nickel required to transport highly abrasive liquid at high temperatures. At the beginning they used fibre-reinforced plastic pipes, that later suffered damage caused by the abrasion. Furthermore, they used polypropylene pipes that didn't work either, they couldn't resist neither the abrasion nor the high temperatures.

The former pipes were short combined sections that required reinforced foundations and were very hard to install. The working periods were short because of the constant failures, furthermore, the maintenance cost was high as well.

### **The Solution**

Once the client evaluated the operative conditions, they decided that Pexgol pipes were the best option, thanks to its abrasion resistance. Additionally, special "U" pieces were developed for the client, made of steel with internal Pex lined.

After the installation, the Pexgol pipes operate perfectly till today, in excellent conditions and reducing head losses.



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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.

