

Pexgol's Pipe Solution Enhances Salmon Farming

Improving the efficiency of salmon farming with the superior solution of Pexgol pipes.



Mowi
Chile | 2021

• Working Conditions

Temperature: 10°C / 50°F
Flow: 4 tons per day
Pressure: 1 bar

• Pexgol Pipe

Pexgol 90 mm, class 12

• Application

Aquaculture (salmon feeding)

• Length

1300 m / 4265 ft

The Challenge

Mowi ASA, a Norwegian seafood company specializing in salmon farming, operates in various countries globally. Their operations span Norway, Scotland, Canada, the Faroe Islands, Ireland, and Chile. In one of their Chilean locations, they encountered significant difficulties with their existing High-Density Polyethylene (HDPE) feeding lines.

The HDPE pipes were supposed to last an entire farming cycle, approximately 16 months. However, they would often break around the eighth month. This issue led to constant repairs and loss of food due to the ruptures, impacting efficiency and productivity in their operations. To address this, Mowi ASA decided to conduct a trial at one of their farms, replacing half of their feeding lines with Pexgol pipes and leaving the remaining half with HDPE.

The Solution

Pexgol provided a class 12, 90mm pipe for the project, amounting to a total of 1300 meters. The pipes were used in an aquaculture application specifically for feeding salmon at sea, with a daily flow of 4 tons of food pellets at a temperature of 10°C and pressure of 1 bar.

The trial results were resoundingly successful. While the HDPE pipes continued to break after the eighth month, the Pexgol pipes remained intact throughout the farming cycle. This victory attested to the long lifespan and flexibility of the Pexgol pipes, making them a more efficient and cost-effective solution.

As a result of the successful trial, Mowi ASA chose to continue the test in another cultivation center, further solidifying Pexgol's role in transforming their operations.



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 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 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

