



Installation of Pexgol pipes to transport fish.

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TASA
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Working Conditions:

Extreme temperatures 5° to 21°C /
41° to 69.8°F

Pexgol Pipes:

Pexgol 355 mm (14"), class 10

Application:

Fish transport

Length:

2100 m / 6900 ft

The Challenge

Tecnológica de Alimentos S.A. (TASA) required to transport Anchovy fish that measured between 12 and 15 cm from their vessels to the processing plant.

The fish was transported using HDPE pipes. The fish lost its mass due to rubbing against the walls of the pipes. These pipes were joined by thermofusion, which caused an internal burr (protruding portion of material) in the joints and increased damage to the fish. For this reason 450 mm HDPE pipes and a large amount of water must be used to transport the fish. The latter caused a considerable increase in the costs of water treatment.

Pexgol Solution

The client decided to replace its HDPE pipes and install 4 Pexgol lines for fish unloading in 3 plants of the company, with a length of 700 meters each and a diameter of 355 mm (14") class 10. In the installation, concrete pieces were put on the pipe in order to make sure it doesn't float on the sea.

Among the main advantages that were verified in this application were:

- Smooth internal surface: Decreased mass loss, which results in the fish practically intact at the exit of the discharge, and therefore generates a



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better quality final product.

- Lower costs for water treatment: It was possible to lower HDPE pipes of 450 mm PN 10 to Pexgol 355 mm (14") class 10 pipes. Since it is a less rough pipe material, it allows the fish to be transported with less water, reducing more than 20% the cubic meters of water per linear meter.

- Electrofusion unions: 178 unions were made that did not leave any type of internal burr (and therefore generate less damage to the fish).



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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 nonstop performance in some of the world's harshest environments.
- **Long pipe sections:**
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Crosslinked 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.

