



Test installation for transporting silica sand.

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Covia Corp
Mexico | 2019
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Working Conditions:
Pneumatic transport at 6 bar

Pexgol Pipe:
Pexgol Elbow 90° 225 mm (8"), Class 15
Pexgol Flange Coupler 225 mm (8")

Application:
Transport of silica arena

Length:
n/a

The Challenge

Covia Corp, a leading company in the manufacture and sale of industrial minerals in Mexico, required to pneumatic transport silica sand at 6 bar (with 50% solids). Initially they worked with 225mm (8") HDPE pipes that suffered from high levels of wear at the elbows due to abrasion of the material it was carrying.

Pexgol Solution

The client decided to replace one of the HDPE elbows with a Pexgol 90° 225 mm (8") class 15 and test it for 3 months. HDPE elbows generally lasted up to a month and a half of work. The Pexgol elbow had to at least double the operating time to pass the test. After 3 months of testing it was shown that Pexgol exceeded expectations. It's been more than a year and the elbows continue to function without problems. Only torque wrenches were used for the installation.



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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.