



Transportation of Bauxite Ore Slurry at 95°C / 203°F

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**Urals Alumina
Plant - Rusal**
Russia | 2013
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Working Conditions:
High temperature

Pexgol Pipe:
Pexgol 160 mm Class 15

Application:
Slurry Transportation

Length:
20 m

The Challenge

At Urals Alumina Plant, they required to renovate their carbon steel pipes where they transport bauxite ore slurry at 95°C / 203°F. Every year these lines were suffering from sedimentation problems and it was necessary to clean them every three months, involving man power and high costs.

Pexgol Solution

The client decided to replace the carbon steel pipes with Pexgol pipes. Thanks to its smooth inner surface, sedimentation is not a problem and as a consequence requires less maintenance, lowering also costs.

The Pexgol pipes have been checked annually and even after 4,5 years of exploitation, the pipes have shown positive results. They don't have to clean the pipes any more.



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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's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Pexgol's crosslinking piping solution can withstand high amounts of axial and radial stresses and is highly resistant to impact, fracture and fatigue. Also is completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

Carbon Steel Pipe



Pexgol Pipe

