



Pipe system for back-filling of mine shafts

MINING

At Boliden's zinc mine in Garpenberg the residual product enrichment sand is used for backfilling.

The enrichment sand is dewatered and mixed with cement or a similar substance, forming a paste. The paste is pumped into piping at high pressure.

The existing pipe system consisted heavy steel pipes, which were subjected to heavy wear by the paste, thus pipes and valves had to be replaced frequently. The pipes were heavy and required high lifting, which meant dangerous and time-consuming steps.

Thanks to close collaboration, Alvenius succeeded in developing a quick-coupled steel system made of lightweight pipes and components which can withstand high pressure and long-term wear.

The lightweight pipes, CorroFlo coating and quick couplings meant that the paste system was assembled quickly, simply and without any heavy lifting at all, resulting in a better work environment.

Facts

Country:..... Sweden

Dim:.....DN150 (168,3 mm)

Media:..... Backfilling Paste