

Bellacide® 350

a cost effective, high pressure withstanding biocide

Sustainable alternative to gluteraldehyde with corrosion inhibition properties.



Bellacide 350 in action

Bellacide 350 eliminates bacterial fouling and helps prevent corrosion with 1/3 the dosage of gluteraldehyde.

Limits corrosion from occurring within pipeline

Effective for > 90 days

Prevents biofouling from forming within pipeline

Works well while being used in high pressurized pipelines

Challenge

A pipeline construction firm in Latin America performed a pipeline hydraulic test for a copper mine company by using seawater in a pressurization test. The internal diameter of the pipeline was 36 inches with a total length of 141 km. The pipeline hydraulic test was performed on 8 different sections of the pipeline all at various lengths. They tested pressures within various sections of the pipe ranging from 1,094 psi to 2,727 psi. Each section of the pipeline was filled with various volumes of water ranging from 1,779 m³ to 14,818 m³. The biocide of choice, gluteraldehyde was proving to be ineffective at controlling the biological activity even at 60 ppm active. In addition, pitting from corrosion was also seen in sections of the pipe. Overall the mining company was looking for a chemical that was cost effective, required less amount of chemical and that could protect pipes from corrosion and bacteria while under maximum operating pressure.

Results

The mining company looked at Bellacide 350 as a treatment because of its abilities to eliminate bacteria, remove biofilm, deliver sustained activity and reduce corrosion rates. They also found that an effective dosage to be 20 ppm compared to the 60 ppm of the prior product. After running the pipeline pressurization test trial successfully for 4 months, the pipeline construction firm did not see any indication of bacteria fouling, biofilm, odor or corrosion.



Our wide selection of biocide chemistry can be tailored for any treatment scenario.

Learn more at www.wateradditives.com

Bellacide® 350

Bellacide 350 is a fast acting, long lasting biocide that kills SRB's, APB's and biofilm in the widest range of conditions. Bellacide 350 will not degrade and maintains performance regardless of pH, temperature, pressure or the presence of reducing agents. Bellacide 350 controls biofilm and microbially induced corrosion, and improves health and safety. Bellacide 350 is a 50% aqueous solution of tributyl tetradecyl phosphonium chloride (TTPC).

Bellacide 350

Typical dose in halogenated systems	25-50 ppm
Typical dose in single biocide systems	250-500 ppm
Activity	48-52%



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