

Bellacide[®] 300

reduce oxidizer's corrosivity

Challenge

Bleach is commonly used to control microbiological growth in water reuse for fracturing and production. However, it's known that bleach's corrosive characteristics have detrimental effects on equipment and piping.

Test

In a laboratory test, bleach (sodium hypochlorite) was combined with Bellacide 300 to determine the corrosive properties of this combination. N80 steel was tested over a 72-hour time span for the following mixtures:

1. Control (no additive).
2. Bleach 250ppm active as sodium hypochlorite.
3. Bleach 250ppm active as sodium hypochlorite + 20ppm active Bellacide 300.
4. Bleach 250ppm active as sodium hypochlorite active + 50ppm active Bellacide 300.
5. Bleach 50ppm active as sodium hypochlorite active + 20ppm active Bellacide 300.

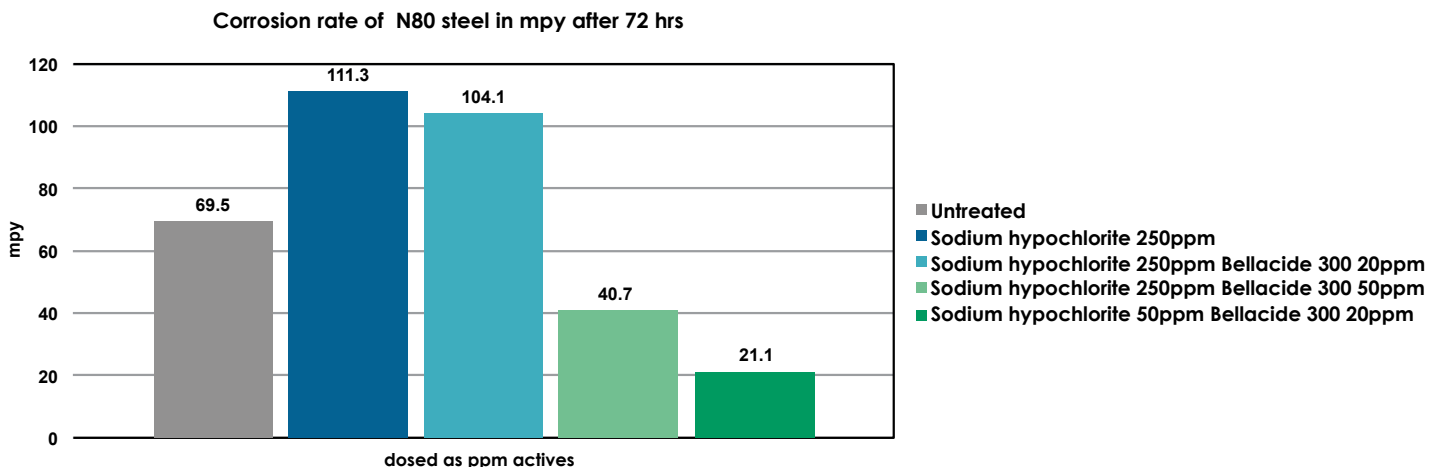
Results

In a typical field dose of 250ppm, as active sodium hypochlorite, a corrosion rate of 111.3 mpy was seen. With the addition of 20ppm active of Bellacide 300, a reduction of 6 percent in the corrosion rate was observed. The application of Bellacide 300 at 50ppm active (with the same 250ppm of sodium hypochlorite), reduced the corrosion rate by 63 percent.

Bellacide 300 has synergistic compatibility with halogens as seen in other industries, where the same biocidal efficacy can be achieved at a lower halogen dose. This test was designed to mirror this effect by reducing sodium hypochlorite to 50ppm and Bellacide 300 to 20ppm. A reduction of 81 percent was observed.

Conclusion

These lab results validate customer feedback when using Bellacide 300. Replace your non-oxidizer with Bellacide 300 and watch halogen use go down, and corrosion rates plummet.



Our wide selection of biocide chemistry can be tailored for any treatment scenario.
Learn more at www.wateradditives.com

Bellacide® 300

Bellacide 300 is a fast acting, long lasting biocide that kills SRB's, APB's and biofilm in the widest range of conditions. Bellacide 300 will not degrade and maintains performance regardless of pH, temperature, pressure or the presence of reducing agents. Bellacide 300 is the most robust product for all biocide needs, with the added benefit of reducing corrosion rates.

Bellacide 300 Fast acting, long lasting	
Appearance	Clear, colorless liquid
Specific gravity at 20° C	0.98
pH	6.0 – 8.0
Odor	Slight to none
Boiling Point	100° C (212° F)



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