

The Neptune Proteus corrosion inhibitors offer excellent protection in a variety of waters commonly found in oilfield operations. Their use has greatly improved the service efficacy, efficiency and economy for coiled tubing companies and string manufacturers alike. Use who the professionals use - Neptune.

Proteus 500 is an innovative chemistry for use in freshwater and light brine applications to protect the ID of the pipe from corrosion associated with oxygen, MIC and low to moderate levels of acid gases.

Proteus 545 is a unique amide/imide surfactant blend used to prevent corrosion when operations are using heavily recycled waters or heavy brines with low acid gas content.

Proteus 550 is an azabenzene derivatives blend that provides excellent protection against oxygen, chlorides, and high levels of acid gases. It can also be used for string storage, long haul over-the-road transport, and offshore transport.

Proteus	Application	Dose (gallons / 12 bbl)
500	freshwater & rinse	1 - 1.5 gallons
545	recycled water & high brines	1 - 2 gallons
550	storage/transport & offshore	1 - 2 gallons

PROTEUS MIXING

Proteus chemical pill mixing instructions are as follows:

- determine estimated string volume; $\text{Volume (bbl)} = \text{OD}^2 (\text{in.}) \times \text{Length (ft.)} \times 0.0009714$
- determine required volume of Proteus chemical by looking at the chart (above)
- add recommended dose to 10 bbl of freshwater in saddle tank and mix briefly

For maximum corrosion protection, it is recommended to perform both a pre and post-treatment routine. Instructions for each can be found below.

STRING PRE-TREATMENT

- create a chemical pill following the "Mixing" instructions above
- pump the chemical pill to the string at 1.0 barrels per minute (~42 GPM)
- conduct the pressure test, continue operations as normal

STRING POST-TREATMENT & STORAGE/TRANSPORT (SEE DIAGRAM BELOW FOR USE WITH PIGGING)

- create a chemical pill following the "Mixing" instructions above
- pump the chemical pill to the string straight from the saddle tank at a steady rate
- evacuate the string with nitrogen (and cap for storage/transport)
- The use of scrubber/wiper pigs can be used to create an isolated pill (see below)



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