

# RX-2000 CORROSION INHIBITOR SERIES



## *General*

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The **RX-2000 Series** is our range of **Corrosion Inhibition** chemicals, which have been successfully used throughout the North Sea sector for over 10 years. They have been tailored to meet specific corrosion problems and are now applied to topside process streams, main export pipelines and gas lift systems.

The **RX-2000 Series** of Corrosion Inhibitors give excellent protection from corrosive processes and have been developed to be compatible with all other process chemicals.

## *Development*

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The **RX-2000 Series** has been developed in our Aberdeen laboratories over a number of years by our team of corrosion experts using state of the art equipment. This includes:

- A range of Linear Polarisation Resistance (LPR) cells and thermostat controlled hot plates
- Positive pressure and atmospheric pressure Rotating Cylinder Electrode (RCE) and Rotating Disc Electrode (RDE)
- Custom designed flow loop integrating LPR, RCE, RDE, Jet Impingement and Weight Loss measurements with the ability to vary shear-rate, temperature and brine corrosivity to suit field conditions
- ACM Gill 12 Channel Potentiostat enabling simultaneous evaluation of several techniques including Cyclic Voltammetry, Potentiostatic Measurements, Galvanic and Tafel

## *Application*

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The **RX-2000 Series** of Corrosion Inhibitors are deployed depending on their function.

From field experience, typical dose rates are generally in the region of 5 - 25ppm. Field engineers are supplied to optimise injection rates to ensure maximum product efficiency. The **RX-2000 Series** of inhibitors are designed to have low viscosity for easy application and handling.

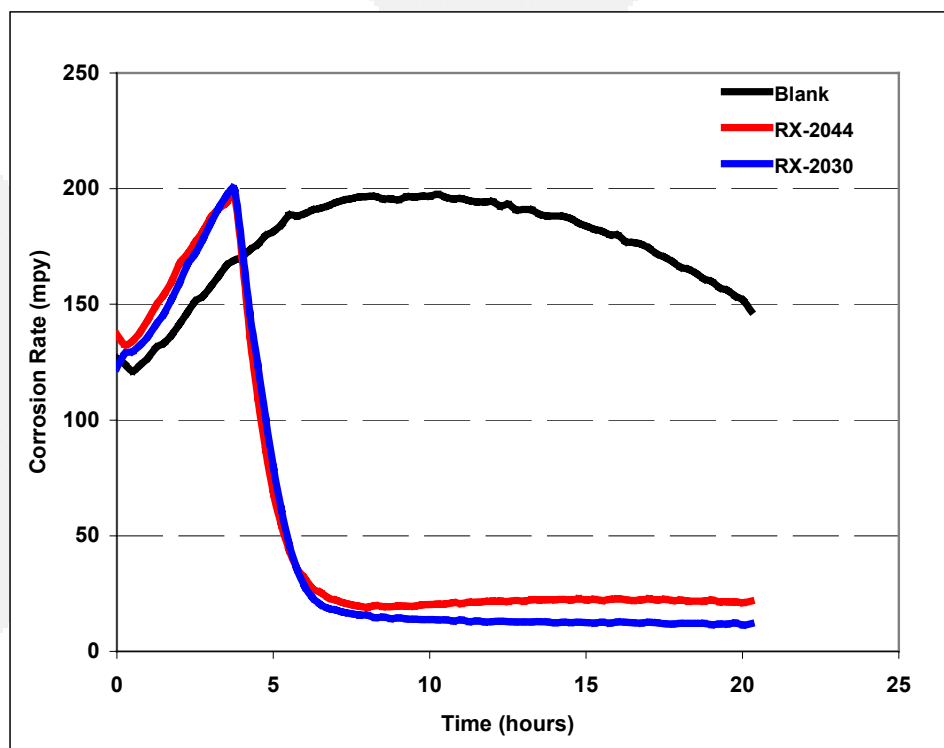
Products can be supplied in 208 litre drums or offshore tanks.

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## Results

The **RX-2000 Series** of Corrosion Inhibitors, when applied correctly, give excellent protection from corrosive processes. The chart below illustrates a typical LPR chart with two of the **RX-2000 Series** inhibitors and a blank for a particular field brine at 60°C. Using the ACM Gill 12 Channel Potentiostat, as many as 12 separate inhibitors can be assessed during a single test.



As well as providing excellent protection from general corrosion, some inhibitors in the **RX-2000 Series** are designed to preferentially protect weld treatments from galvanic corrosion.

The protection provided by the **RX-2000 Series** extends the life of pipelines and process vessels, saving on expensive downtime and materials during repair and replacement.

## Handling

Please consult MSDS and Roemex personnel prior to applying any products in the **RX-2000 Series**.