

RX-3000 EMULSION BREAKERS SERIES



General

The **RX-3000 Series** is the Roemex range of Demulsification chemicals.

Products in the **RX-3000** series have been successfully used throughout the North Sea sector and worldwide for over 10 years.

Products in the **RX-3000** series work by firstly removing the emulsifying agent and secondly coalescing the water droplets that then separate by gravity, achieving dry oil with low salt content as well as minimal oil in the separated water.

Roemex has a team of experienced Demulsifier Chemists and custom designed specialist equipment for performing Bottle Tests in the field globally. As well as testing offshore in the North Sea, Roemex has vast international experience of many different emulsions, processes and working conditions. This has led to the deployment of **RX-3000** demulsifiers in many fields globally resulting in significant savings for operators.

Application

The **RX-3000 Series** of Demulsifiers are generally injected into produced fluids at a point upstream of the 1st stage separator. Alternatively, products within the **RX-3000** series can be injected subsea if required.

Field experience shows that typical dose rates are in the region of 5 - 50ppm, based on the total volume of produced fluids.

Formulating the correct demulsifier to maximise water removal should always be performed in the field using fresh emulsion, as every emulsion is unique and related to the field as well as process conditions. Emulsions also age, becoming more difficult to break over time, meaning a delay during transportation of crude is not viable.

Normal practice is for a field trial to be carried out prior to bulk purchase. This can be performed by Roemex engineers using a temporary injection skid and injection lines. This allows the optimum dose rate to be determined prior to full field implementation.

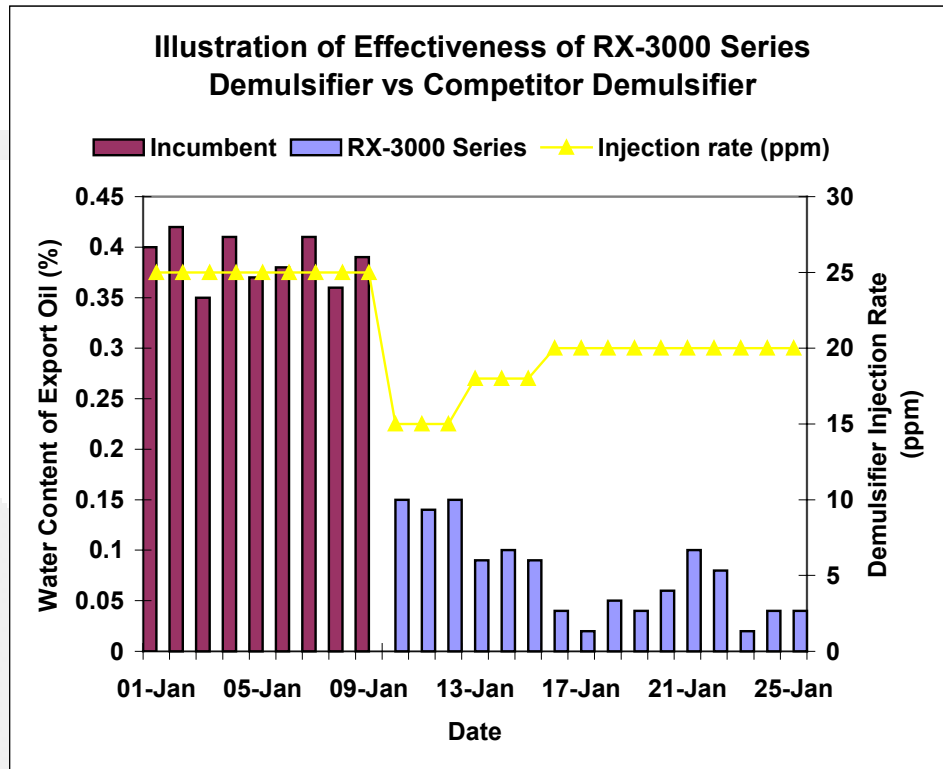
Results

The **RX-3000 Series** of Demulsifiers are designed to give rapid separation of oil and water along with a sharp interface and good water quality and can be designed to desalt crude if required.

Field performance of the **RX-3000 Series** of demulsifiers has resulted in significant production savings for operators as well as improved quality of separated water.

The following chart illustrates the improvements made in a particular field where a demulsifier from the **RX-3000** series has replaced a competitor product.

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The demulsifier from the RX-3000 series was applied at a lower injection rate than the competitor product and reduced the water content of export oil by approximately 90% i.e. a significant overall improvement.

Handling

No special procedures need to be observed. Normal precautions should be taken and protective clothing, goggles and PVC/rubber gloves should be worn.