

# Embreak\* DM20184S

## Heavy Crude Oil Emulsion Breaker

Embreak\* DM20184S is designed to:

- Improve dehydration on highly viscous crudes such as heavy Canadian, South and Latin American, synthetic, and low to medium API blends
- Reduce crude unit corrosion through increased salt removal efficiency
- Aid in maximizing crude rates by controlling emulsion buildup at the desalter interfaced
- Maintain high desalter performance levels when processing high BS&W crudes and slops
- Reduce fuel gas consumption by improved dehydration

### Description and Use

Embreak DM20184S is an oil soluble, standard strength emulsion breaking chemical designed to improve crude oil dehydration, salt removal, and effluent brine quality in electrical desalters and other similar process equipment. Embreak DM20184S was designed to dehydrate difficult South and Latin American crudes but has proven successful in a variety of other 14-22 API crudes. **This product is being upgraded to Embreak 2W2024.**

### Typical Application

Pilot plant testing combined with several in-plant evaluations have shown significant improvement on a variety of crude slates from South American, Western Canadian, and Mexican.

### Treatment

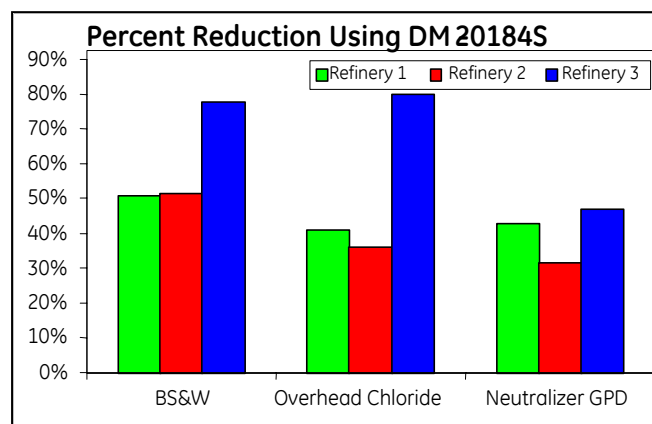
Proper treatment levels for Embreak DM20184S depend on many factors such as crude composition, unit design, and the severity of the desalter operation or other process to which the product is applied. Typical dosages vary from 6 to 24 ppm.

### Feeding

Embreak DM20184S must be fed continuously by a chemical proportioning pump. It is usually fed to the suction side of the crude charge pump or to some other location before the desalter or settling drum where dispersion into the bulk hydrocarbon phase can be assured. Do not mix with other process chemicals unless compatibility has been checked with Product Management. This product is to be used in accordance with control procedures GE establishes for each specific application.

### Evaluation

This product was introduced on three crude units running a variety of heavy South American crudes.



Water content of the desalted crude was reduced by an average of 60%. Overhead chlorides and neutralizer demands was reduced by an average of 50%.

### Safety Precautions

A Material Safety Data Sheet (MSDS) containing physical properties data and detailed safety information for this product is available by contacting your GE Water & Process Technologies representative.



Find a contact near you by visiting [gewater.com](http://gewater.com) or e-mailing [custhelp@ge.com](mailto:custhelp@ge.com).

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