

# Witbreak DRC-167

## Oxyalkylated Phenolic Resin

Provides fast resolution of stable emulsions in which water is the internal phase and oil is the external phase.

### Specifications

Appearance	Dark liquid at 25°C
Color	0-10.0 Gardner
Moisture	≤ 0.50 %
Relative Solubility Number	7.3-7.7

### Characteristics

Appearance	Liquid dark amber at 25°C
Brookfield viscosity, 77°F	24000 cps
Density	8.3 Lbs/Gal at 25°C
Flash point	63.3 C
Odor	Bland
pH	10 (5% in 3:1 IPA/H2O)
Pour point	7.2 °C
Relative Solubility Number	6.8
Water content	≤ 0.5 %
Solubility: 10% in Aromatic 150	Soluble
Solubility: 10% in Isopropyl Alcohol	Soluble
Solubility: 10% in Kerosene	Dispersible
Solubility: 10% in Water	Insoluble
Solubility: 10% in Xylene	Soluble
Solubility: 50% in Aromatic 150	Soluble
Solubility: 50% in Isopropyl Alcohol	Soluble
Solubility: 50% in Kerosene	Insoluble
Solubility: 50% in Water	Insoluble
Solubility: 50% in Xylene	Soluble

#### Notes:

Typical Data are based on our own measurements or derived from the literature. They do not constitute part of the delivery specification.

## Applications

Witbreak DRC-167 is a resin oxyalkylate. This emulsion-breaker works by effectively neutralizing the strength of the natural emulsifying agent, allowing the finely dispersed water droplets to coalesce. As the tiny water droplets merge into progressively larger and heavier drops, the water settles and the oil rapidly rises to the top. The result is a sharp, well-defined oil/water interface and bright, clean and marketable oil.

## Additional information

Witbreak DRC-167 is one of Nouryon's line of high performance emulsion-breaker chemicals. Witbreak DRC-167 has been specially developed to provide fast resolution of stable emulsions in which water is the internal phase and oil is the external phase. Witbreak DRC-167 displays exceptional water dropping, desalting and oil brightening characteristics. It's unique chemistry enables this intermediate to be formulated to achieve very specific applications for the economical treatment of a wide variety of crudes including waste oils. Finished formulations may be used in typical continuous treatment systems as well as downhole and in batch applications, optimizing the oil treatment process.

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## Contact Us

### USA and Canada

Global Headquarters  
Chicago  
USA  
+1 312 544 7000  
[ansc-cs@nouryon.com](mailto:ansc-cs@nouryon.com)

### China

Regional Headquarters  
Shanghai  
China  
+86 21 2220 5000  
[surfactants.asia@nouryon.com](mailto:surfactants.asia@nouryon.com)

### Europe

Regional Headquarters  
Stenungsund  
Sweden  
+46 303 850 00  
[surfactants.europe@nouryon.com](mailto:surfactants.europe@nouryon.com)

### South East Asia

Regional Headquarters  
Singapore  
+65 6635 5183  
[surfactants.asia@nouryon.com](mailto:surfactants.asia@nouryon.com)

### South America

Regional Sales Office  
Itupeva  
Brazil  
+55 11 4591 8938

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