

# HiTEC<sup>®</sup> 611

## *Sulfonate Detergent*

### Application

HiTEC 611 sulfonate detergent is a highly basic calcium detergent that protects against high-temperature deposits and controls rust under low-temperature operating conditions in gasoline and diesel engine applications. HiTEC 611 sulfonate detergent is also used in marine oils due to its high-rate of acid neutralization, water tolerance and excellent filterability. HiTEC 611 is suitable for use in a range of industrial lubricants and greases.

### Recommended Dosage

HiTEC 611 sulfonate detergent is used at dosages varying from 0.1% weight in industrial oils up to 5% in marine oils. Please contact your Afton Chemical representative for specific recommendations.

### Features

- Excellent filterability
- Water tolerance
- High-rate of acid neutralization

### Typical Characteristics

Appearance	Dark brown viscous liquid
Calcium, % wt.	11.9
TBN, mg KOH/g	307
Specific Gravity @ 15.6/15.6°C	1.127
Weight per gallon (USA)	9.4 lbs
Weight per gallon (Imperial)	11.3 lbs
Viscosity @ 100°C, cSt	30
Flash Point, °C (PMCC)	150 min.

### Storage, Handling & Toxicity

Recommended Storage and Handling Temp.: 15-80°C

Max. Handling Temp.: (<24 hrs.) 125°C

Max. Blending Temp.: 125°C

Max. Skin Temp.: (agitated): 190°C

Shelf Life: 6 months @ 50°C, 36 months @ 15-35°C

For specific safety, handling and toxicity information, please refer to the current Material Safety Data Sheet.

The information in this bulletin is, to our best knowledge, correct and accurate, but all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Afton Chemical Corporation and its subsidiaries disclaim any liability incurred in connection with the use of these data or suggestions. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use. HiTEC(R) is a registered trademark of Afton Chemical Corporation. [www.aftonchemical.com](http://www.aftonchemical.com)