

Fact Sheet: FS-1017

## HEAVY POUR POINT DEPRESSANTS IMPROVES PERFORMANCE AND OFFERS ENHANCED HANDLING

The ability of heavy oil to flow can be a challenge to refineries and fuel terminals. When the bulk fluid temperature of heavy oils drop, precipitation of paraffins in the form of wax crystals can occur causing issues with flow performance during production, transportation and storage. The new heavy oil pour point depressant (PPD) offering from Nalco Water, delivers improved performance and enhanced handling properties which allows for more efficient operations.



### MEETING GLOBAL ENERGY NEEDS

Production and transportation of waxy crudes present challenging operational issues for refiners, terminal and pipeline operators due to wax deposition if the pipeline flow is stopped for a long period. The most popular and effective method to prevent crystallization of long chained paraffins and increase fluidity of heavy oils is the addition of PPD directly into heavy oil above its initial wax appearance temperature (WAT).

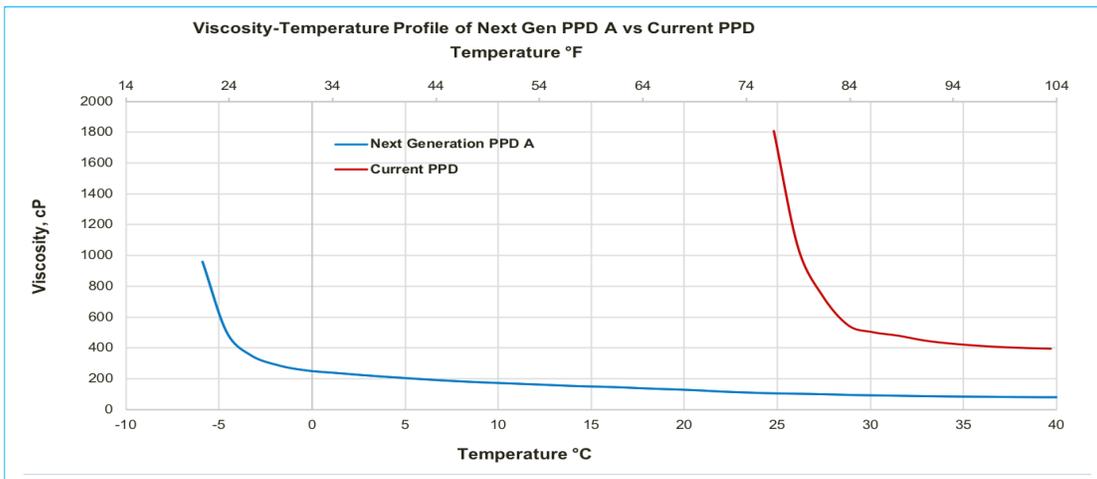
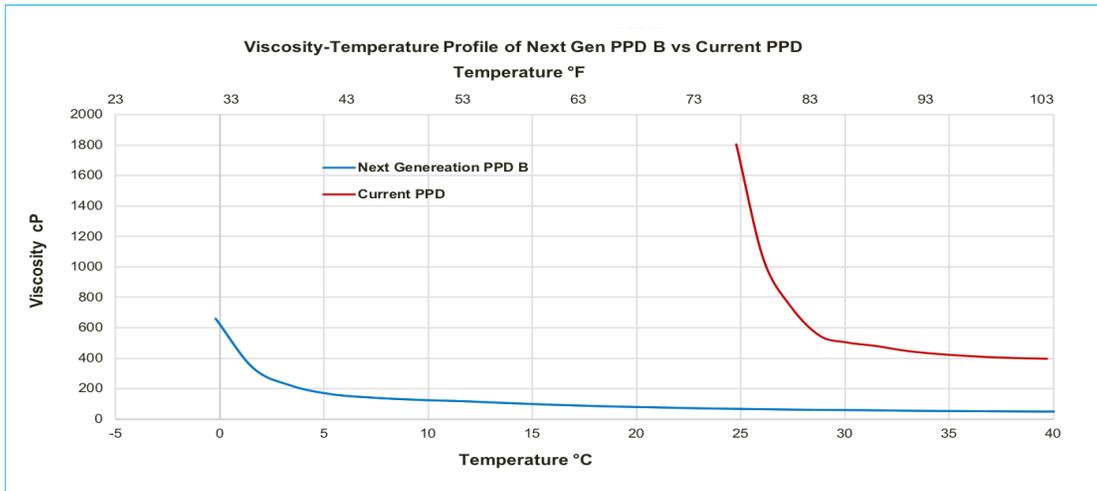
Nalco Water PPD product range is designed to work in a variety of heavy oils which have been characterized by their WAT. The new offering delivers strong performance and helps customers produce on specification fuels maximizing profitability.

### ENHANCED HANDLING PROPERTIES

Targeted reduction in pour point temperature can be achieved using the Nalco Water new generation of PPD's. Low viscosity design of this product line ensures pumpability at low temperatures helping to maintain stable operation.

### OUR EXPERTISE

- Lubricity Improvers
- Corrosion Inhibitors
- H<sub>2</sub>S Scavengers
- Cold Flow Improvers



The above viscosity - temperature profiles show improved handling properties versus PPD's available on the market. Nalco Water onsite representatives can help optimize the dosage of the selected PPD in order to maximize its performance and reduce total cost of operations.

## OUR PEOPLE - ENABLERS OF SMART DECISIONS

With more than 4,000 sales and service employees working to deliver superior customer service, a systematic problem-solving approach, and innovative solutions around the globe, our cross functional team supports our customers with smart decisions.

Our employees includes research and technical services experts with broad, highly skilled capabilities who work in the Nalco Water global Research, Development & Engineering (RD&E) cen-ters and support our customers' diverse markets.

# GOAL ZERO

**SAFETY MATTERS**

## OUR GOAL ZERO COMMITMENT

The safety of our associates, customers, and communities is vitally important. From the way we operate, to the products we develop, to how we partner with customers, our goal is zero: zero accidents, zero incidents, and zero environmental releases. At Nalco Water, safety is more than a metric - it's a mindset. It's how we conduct ourselves, every day, everywhere it matters.

Nalco Water, an Ecolab Company

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