



# P-AS

## **CEMENTING SERVICE BULLETIN**

01/10/15

### **P-AS (PETROCHEM – ANIONIC SURFACTANT & ANTI-SLUDGE AGENT)**

#### **TECHNICAL DATA**

P-AS is an anionic surfactant and anti-sludge agent that is highly dispersible in acid. For a general description of the chemical and physical properties, please refer to the Safety Data Sheet.

#### **RECOMMENDED APPLICATION**

P-AS is a highly effective surfactant designed to help prevent sludging in acidizing operations. This product is commonly used in formations that produce asphaltenic crude, to prevent the loss of well productivity. P-AS is compatible with cationic and nonionic non-emulsifiers and with acid corrosion inhibitors. It is not compatible with strong oxidizing agents. Typical dosage rates range up to 3 gal/1000 gal acid solutions. Excessive sludging problems and certain types of crude oils may require higher concentrations of P-AS. The product can be added directly to the acid holding tanks prior to use or on-the-fly as the treating fluid is being pumped.

#### **FEATURES AND BENEFITS**

In acidizing operations, P-AS can prevent or control sludge associated with asphaltenic crude oil. Improves acid penetration into tight reservoirs. Possesses good water wetting properties. It is effective in removing water-wet acid insoluble fines from formations. Disperses existing acid induced sludge caused by previous acid treatments. Can be used in all types of formations and can be used across a broad temperature range. It is compatible with cationic non-emulsifiers and corrosion inhibitors.



## SHIPPING, STORAGE AND HANDLING

P-AS is flammable and should be stored away from heat, sparks and open flames. It should be stored in a cool, dry, well-ventilated place. Read the label and Safety Data Sheet for complete handling information before using or storing this product. P-AS is available in 5-gallon pails and 55-gallon non-returnable drums. Keep drum openings closed both as a safety precaution and to prevent product contamination and evaporation.

## PROPERTIES

<u>PRODUCT</u>	<u>FORM</u>	<u>SP.GR.</u>	<u>PACKAGING</u>
P-AS	Yellowish Liquid	1.03	55 / 5 GAL

## SAFETY AND ENVIRONMENTAL

Refer to SDS for safety and environmental information. Observe normal handling and safety precautions for industrial chemicals.