



PRODUCT DATA SHEET

PDS 10 DOWNHOLE PARAFFIN TREATMENT

PRODUCT DESCRIPTION

PDS 10 is designed to be used in the following application, down-hole treatment in oil wells where paraffin and asphaltene accumulate and PDS 10 is effective in liquefying those paraffins and asphaltene to clear tubing, rods, and artificial lift equipment. Due to the active ingredients in the PDS 10 it will liquefy paraffin in down-hole oil wells without movement or circulation inside the wellbore. The PDS 10 will stop the need to performing hot oil treatments in the well bore which over time makes the paraffin more difficult to continue to treat with hot oil effectively. The consistent treatment to treating the oil well with PDS 10 will make the production output of the oil well more predictable and easier to keep the flow of oil produced by the well. Currently, conventional manual removal of crude oil bottoms is costly, hazardous, and time consuming often creating environmental and safety challenges. This results in difficulties in inventory, operations, and even procurement staffing.

PRODUCT BENEFITS

- Liquefies paraffin (milk shake consistency)
- Liquefies paraffin (hard pan consistency)
- Minimizes hot oil treatments
- Ensures more production from a well per year
- Decreases costs to maintain oil wells

APPLICATIONS

PDS 10 is a chemical used in oil wells to liquefy paraffin and asphaltene that are considered to be milk shake consistency and hard pan consistency. This product will minimize re-stimulating exercises like acid treatments and hot oil treatments.

HAZARDS

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressure, cut weld, braze, solder drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. "Empty;" drums should be completely drained, properly bunged, and promptly returned to a drum re-conditioner. Avoid prolonged contact with skin and frequently change soiled clothing. In case of contact, wash thoroughly with soap and water for 15 minutes or until the irritation subsides. The formation of mists should be avoided. Do not take internally. If swallowed, do not induce vomiting. Call a physician or Poison Control Center immediately. Keep out of reach of children. Not recommended for "breathing air" or hydrocarbon oils.

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Manufactured By

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Advanced Research &
Development in Lubricants and
Chemicals

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TECHNICAL DATA

TEST PROCEDURE

RESULTS (TYPICAL)

Stock Code	PDS 10	
ISO VG	D2422	N/A
Viscosity 100°C, cSt	D445	N/A
Viscosity 40°C, cSt	D445	N/A
Viscosity 100°F, SUS	D445	85
Viscosity 210°F, SUS	D445	N/A
Auto-ignition temperature	D2270	>430°F
Specific Gravity (g/ml)	D1298	0.740
Density, (lb./gal)	D1298	6.18
Color	D1500	Clear
Flash Point, °C (°F) (COC)	D92	-7.78(18)
Fire Point, °C (°F) (COC)	D92	N/A
Pour Point °C (°F)	D97	N/A
Odor		Mild
Texture		N/A
Appearance		Liquid
Biodegradable (inherently) *		N/A

*see Section IX of Safety Data Sheet

(A/16.6/90)

The values shown here are typical of current production. All of them may vary within modest ranges.

The information contained herein is accurate to the best of our knowledge at the time of printing. It is supplied upon the express condition that the customer or user is responsible for determining the product's suitability for a particular purpose. Products purchased from your local distributor are subject to the terms and conditions set out in the sales contract, quotation, warranty and/or order acknowledgement.

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of these products, please refer to the Safety Data Sheet (SDS), which is available upon request through your local distributor.



Severe-Service Lubricants & Chemicals

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