



# CALWAXSOL™

## WAX DISPERSANT

The CALWAXSOL™ solvent is a ready-to-use product. It provides ease of use compared to buying wax dispersant concentrate and blending on site. It is a specially formulated hydrocarbon solvent developed to rapidly break down wax deposits and separate wax molecules to restore flow in production strings and surface pipelines. Formulated to work under static conditions, CALWAXSOL will also tackle hard-to-access wax deposits from oil batteries and refining equipment.

The product is a combination of small iso-paraffins, aromatics, alcohols, and a dispersant, which act to rapidly break apart wax deposits. Iso-paraffins and aromatics are some of the most aggressive hydrocarbons to break apart and solvate wax. Alcohols help to remove any trace of water associated with the deposit, which allows the hydrocarbons to attack the wax deposit more effectively, causing the wax to flake off as small discrete “dry” particles. The key to CALWAXSOL is the uniquely formulated wax dispersant, which binds to these “dry” particles and imparts a cationic charge to the wax particle to ensure oil flow is restored.

### ADVANTAGES

- **Price:** Less expensive compared to high octane gasoline molecules
- **Transportation:** Available by truck and rail with storage in railcars
- **Cost:** Overall treatment costs are lower than water, aromatics and hot oiling
- **Savings:** Solvent is returned to the crude battery and sold as a barrel of crude oil
- **Sustainability:** No waste disposal
- **Improved Performance:** Can be used with a hot oiler

### USES

- Downhole cleanup of wax deposits
- Storage tank wax cleanup
- Pipeline wax deposit cleanup
- Surface equipment dewaxing

### APPLICATION

CALWAXSOL is used to clean wax residues in crude oil production tubing, production flowlines, storage batteries and transport flowlines. The volume of solvent to be used should be calculated based on the volume needed to fill the pipe and cover the deposit.

- Once flow has been restored, the spent solvent can be sent to a crude storage system for sale as crude oil.
- CALWAXSOL can be used in multiple methods:
  - Static: Leave in contact 6-24+ hrs. depending on temperature
  - Circulating: Pumped through the pipe or tank
  - Hot oiler: Use with heat in a closed system
  - Pigging operation: Combine with mechanical loosening of deposits

### TECHNICAL ASSISTANCE

For product or technical questions, contact your Sales Representative or Calumet Product Support at (800) 437-3188 or email [technical@calumet.com](mailto:technical@calumet.com).

### TYPICAL PROPERTIES

PROPERTIES	METHOD	CALWAXSOL
Density @ 60 °F	ASTM D1250	6.3 lbs/gal
Flash Point TCC	ASTM D56	37 °F
Aromatics (Vol. %)	ASTM D1319	10-15%
Distillation, IBP (°F)	ASTM D86	145
Distillation, Dry Point (°F)	ASTM D86	310
Specific Gravity @ 60/60 °F	ASTM D1250	0.753
Pour Point (°F)	ASTM D97	<-70



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