

# Measuring Hydrocarbons in Drill Cuttings

- Test oil levels for overboard disposal
- Meet requirements for land applications
- Results in less than 15 minutes
- ppm or % hydrocarbon levels



InfraCal 2 Analyzer



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The large amounts of drill cuttings produced in off-shore drilling require meeting an allowable limit on total petroleum hydrocarbons (TPH) for ocean disposal. The North Sea currently has a 1% limit. Transporting cuttings to shore is labor intensive, costly and could cease due to bad weather. Limit requirements also must be met for on-shore disposal or reuse.

Whether on-shore or off-shore, in less than 15 minutes the InfraCal 2 Analyzer can verify the drill cuttings oil levels are below the allowable limit. The InfraCal 2 Analyzer is a compact, fixed-filter mid-infrared analyzer with no moving parts. Hydrocarbons are measured at  $3.4 \mu\text{m}$  ( $2930 \text{ cm}^{-1}$ ). It is rugged and portable weighing less than 5 pounds, and the user interface is specifically designed for non-technical users.

To accommodate percent levels of hydrocarbons in drill cuttings, the oil is extracted into perchloroethylene and measured directly solvent. If a ppm level measurement is required, the oil is extracted into hexane and the solvent is evaporated off leaving the oil film for analysis. The Infracal 2 Analyzer's capability for multiple calibrations allows for both a low and high level calibration with the different solvents. Other features include password protected instrument and calibration settings, internal data storage and data exports, multiple languages and an internal battery pack.

Analyzer Model	Range	Comments	Solvent
InfraCal 2-ATR-SP	1-2000 ppm	InfraCal 2-ATR can be used with both hexane or perchloroethylene for ppm and percent ranges with 2 calibrations	Hexane
InfraCal 2-ATR-SP	0.2 (2000 ppm) -10%	InfraCal 2-ATR can be used with both hexane or perchloroethylene for ppm and percent ranges with 2 calibrations	Perchloroethylene

## Product Specifications

Type	Fixed filter infrared analyzer
Dimensions	6.7" (17 cm) x 7.8" (19.8 cm) x 5.2" (13.2 cm)
Weight	5.8 lb. (2.6 kg) with battery -7.0 lbs (3.2 kg)
Display	640 x 480 Color TFT
Power Supply	Universal AC/DC provided
Power Requirements	18 Volts DC, 3.3 amps, battery pack available
Suggested Operating Range	40°F (5°C) - 110°F (40°C) Humidity 90% non condensing
Communication Ports	18 Volts DC, 3.3 amps, battery pack available
InfraCal 2 ATR-SP	Part Number 405-2034