

## Determination Of Wax Content In Oils Application Note 12

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### Determination Of Wax Content In

Wax deposition is one of the chronic problems in the petroleum industry. The various crude oils present in the world contain wax contents of up to 32.5%. Paraffin waxes consist of straight chain...

### Determination of wax content in crude oil | Request PDF

There are among others also two European standard methods for determination of wax content in bitumen, namely method by distillation, and method by extraction. The first method determines the paraffin wax content of bitumen from a distillate obtained by a specified distillation process.

### A new test method for determination of wax content in ...

Wax deposition is one of the chronic problems in the petroleum industry. The various crude oils present in the world contain wax contents of up to 32.5%. Paraffin waxes consist of straight chain saturated hydrocarbons with carbons atoms ranging from C18 to C36. Paraffin wax consists mostly with normal paraffin content (80–90%), while, the rest consists of branched paraffins (iso-paraffins) and cycloparaffins.

### Determination of wax content in crude oil: Petroleum ...

Determination of Wax Content in Oils Application Note 12 Wax (paraffin) content is an important characteristic affecting the physical properties of petroleum crude oils, in particular their viscosity. Thus, measuring wax content has become a routine analytical requirement for product quality control.

### Determination of Wax Content in Oils Application Note 12

(PDF) Determination of wax content in crude oil.pdf | Dr. Abdul-Sattar Nizami, Dr Mohammad Rehan, and Osman Taylan - Academia.edu Wax deposition is one of the chronic problems in the petroleum industry. The various crude oils present in the world contain wax contents of up to 32.5%.

### (PDF) Determination of wax content in crude oil.pdf | Dr ...

It is suitable to determine the oil content in petroleum wax, the congealing point of which is higher than 30 °C and the oil content of which is not more than 15%. The method is expressed as follows: Solve sample in the methyl ethyl ketone and cool it to -32 °C to separate wax out.

### Petroleum Wax Oil Content Tester - lab-men

Determination of Wax Content in Egyptian Crude Oils. Wax precipitation is one of the most important flow assurance problems. Unfortunately, experimental data are very scarce to confirm existing models for prediction of such production impairment and other hazardous risk; while its curative approaches and production losses add to colossal economic sabotage to the petroleum industry.

### Determination of Wax Content in Egyptian Crude Oils ...

wax content, especially with heavier oils (Ronningsen & Bjomdal, 1991). This paper describes a new method for determining the wax content in crude oils, using saturate fractions collected from hydrocarbon group separations. Methods . Determination of wax content-gravimetric method . Details of this method have been described

### A new metod for the determination of wax content of crude oils

The wax content of some of the solutions prepared in the laboratory was determined by calculating the crystallization induction time. The values obtained were compared to those from different...

### Determination of wax concentration in sunflower seed oil

Wax precipitation in crude oils can produce problems in production and transportation operations. A novel FT-IR spectroscopy method is described for the determination of the wax precipitation temperature (WPT), and the estimation of the amount of precipitated solid wax material (both crystalline and amorphous) present in petroleum crude oils.

### Determination of Wax Precipitation Temperature and Amount ...

The quadratic equation  $y = 1.68 + 0.56(x) + 1.3 \times 10^{-5} \cdot x^2$  ( $y = \text{ppm wax}$ ,  $x = \text{turbidity in NTU}$ ) gives a correlation coefficient of .997, and is used to calculate wax content from turbidity measurements.

### Rapid determination of wax in sunflower seed oil - PDF ...

Waxes are precipitated from the deasphal- tened oil (maltenes) with a methylene chloride/ methylethyl ketone mixture at -30, filtered, dried and weighed. Determination of wax content--gas chromatographic method The saturate fraction of a crude oil is obtained by hydrocarbon group separation, described briefly as follows.

### A new method for the determination of wax content of crude ...

Determination of Wax in Oils by NMR In contrast to the standard method and the DSC technique, low resolution Nuclear Magnetic Resonance (NMR) provides a fast, direct and user-friendly method for the determination of wax content in oils that can be operated by a non-NMR expert user.

### Determination of Wax Content in Oils Using a Benchtop NMR

Different methods are available for determining the wax content in oils, for example: Extraction of the wax; Determination of the pour point of the oil; Determination of the cloud point of the oil; Optical measurements using polarization microscopy; NMR; These methods all have various disadvantages such as long analysis time, the use of chemicals, large sample amounts or relatively poor detection limits. DSC can be used to measure the melting behavior of the wax.

### Determination of Low Concentrations of Wax in Oils by DSC ...

A rapid estimate of wax content in sunflower seed oil may be obtained by heating the oil to 130 C and subsequent cooling in ice for 10 to 15 min. Microcrystalline waxes are then formed. They are quantified by measuring increased turbidity with a sensitive turbidity meter.

### Rapid method for determination of wax in sunflowerseed ...

There are among others also two European standard methods for determination of wax content in bitumen, namely method by distillation and method by extraction. The first method determines the paraffin wax content of bitumen from a distillate obtained by a specified distillation process.

### A Novel Method for Determination of Paraffin Wax Content ...

Wax Content Wax content is used to identify the presence of pomace oil and is determined by gas chromatography. Wax content of oils is higher in pomace oil, because pomace contains a greater proportion of fruit skin where most of the waxes originate. It is also solvent extracted, which

dissolves waxes that otherwise would not be extracted.

**Wax Content - Olive Oil Test - Olive Oil Testing Services**

Food chemistry analysis includes the characterization of wax content in olive oil, used to help ensure the product is unadulterated Both of these analyses can be accomplished with the use of capillary gas chromatography (GC). The suitability of the MET-Biodiesel capillary column to perform both of these applications was investigated.

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