



## Key Features

- Salt concentration values displayed automatically
- No need for mixing of salt standards
- Pre-calibrated for immediate use as per ASTM D3230
- User calibration modes allow verification against user standards
- Typical test time of less than 30 seconds
- Moisture proof membrane touch panel with large keys
- Fully portable, all items contained in aluminium carry case
- Supplied with beaker and sensor support stands
- Interchangeable plug-in sensor
- Battery or mains power supply

## Application

The presence of salts (chlorides) in crude oil provides a serious problem to drilling, pumping and refining processes, it is also of concern during transport. Excessive salt levels may cause corrosion problems and clogging of pipelines, refining and catalytic processes.

- Refineries
- Pipelines
- Terminals
- Laboratories
- Inspection Companies
- Oil platforms

## Principles of Operation

The **Seta Salt-in-Crude Analyser** is a robust and portable instrument for determining the chloride (salt) content of crude oils in full conformity to ASTM D3230, IP 265 and equivalent test methods.

The **Analyser** is pre-calibrated and automatically displays salt concentration measurements in g/m<sup>3</sup> or lbs/1000bbl (pounds per thousand barrels), this avoids the need to mix salt calibration standards and makes testing a simple and fast procedure.

### 3 test modes:

**ASTM/PRECAL** - pre-calibrated for use in conformity to ASTM D3230

**ASTM USER**- allows user calibration of ASTM values (ie: display values can be verified and/or recalibrated by the user against salt solutions of known conductivity)

**IP USER** - allows user calibration according to IP 265 values

Measurements can be displayed or exported to a PC or to LIMS network. The instrument is suitable for bench top or hand-held operation and operates from battery or mains voltage.

**View Demo Video:** [www.stanhope-seta.co.uk/salt-in-crude.html](http://www.stanhope-seta.co.uk/salt-in-crude.html)

## Safety & Maintenance

The **Salt-in-Crude Analyser** is housed in a robust ABS case with moisture proof membrane switch panel, service is limited to changing the battery. An interchangeable spare sensor is available.

## SaltCheck Verification Kit

The kit is designed to quickly verify the results displayed on the Analyser. It contains a set of 3 'SaltCheck' verification modules supplied in a convenient storage case. The modules are calibrated to show equivalent salt values of:

- 0 g/m<sup>3</sup>
- 30 g/m<sup>3</sup>
- 190 g/m<sup>3</sup>

Instrument verification is easy - simply plug the sensor assembly into each module to verify display readings.

Saltcheck is supplied with a certificate of verification.



## Ordering Information

99700-6:	Salt in Crude Analyser
99703-0:	SaltCheck' verification tool
99700-403:	Power supply
99700-404:	Stands (pair for beaker and sensor assembly)
99700-602:	Beaker (pack 10)
99700-603:	Temperature probe and cable
99700-604:	Replacement probe and sensor
99701-0:	Instrument bench stand

## Specifications:

Conductivity Range:	0.0 to 151 lbs/1000bbl (Res: 0.1 lbs/1000bbl) 0.0 to 430.0 g/m <sup>3</sup> (Res: 0.1 g/m <sup>3</sup> )
Temperature Range:	-20 to 150°C (res: 0.1°C)
Power Requirement:	9 volt dc battery or mains adaptor (110/120/220/240V, 50/60Hz adaptor supplied)
Size (HxWxD) / Weight:	20 x 7 x 3.5cm / 1.6kg

SUPPLIED WITH: an interchangeable plug-in sensor assembly, beaker & sensor support stands, mains voltage transformer, carry case, mains adaptor, software, RS232 cable & instruction manual.

