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

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/m³ 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

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
**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$^3$
- 30 g/m$^3$
- 190 g/m$^3$

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

Saltcheck is supplied with a certificate of verification.

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**Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99700-6</td>
<td>Salt in Crude Analyser</td>
</tr>
<tr>
<td>99703-0</td>
<td>SaltCheck’ verification tool</td>
</tr>
<tr>
<td>99700-403</td>
<td>Power supply</td>
</tr>
<tr>
<td>99700-404</td>
<td>Stands (pair for beaker and sensor assembly)</td>
</tr>
<tr>
<td>99700-602</td>
<td>Beaker (pack 10)</td>
</tr>
<tr>
<td>99700-603</td>
<td>Temperature probe and cable</td>
</tr>
<tr>
<td>99700-604</td>
<td>Replacement probe and sensor</td>
</tr>
<tr>
<td>99701-0</td>
<td>Instrument bench stand</td>
</tr>
</tbody>
</table>

**Specifications:**

- **Conductivity Range:** 0.0 to 151 lbs/1000bbl (Res: 0.1 lbs/1000bbl) 0.0 to 430.0 g/m$^3$ (Res: 0.1 g/m$^3$)
- **Temperature Range:** -20 to 150$^\circ$C (res: 0.1$^\circ$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.

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