

Gasoline Testing Solutions

Laboratory Instruments for quality control, analysis and calibration



Vapour Pressure

Setavap3 Automatic Vapour Pressure Tester (80500-0)

ASTM D5191; ASTM D6378; ASTM D5188; EN 13016-1 & 3; IP 394; Correlates with ASTM D323; ASTM D4953; ASTM D5482

- Rapid automatic vapour pressure testing
- Mini methods - 1 ml sample volume
- Integrated shaker
- Robust measuring chamber/Valves/Piston Mechanism
- Results available as DVPE, RVPE VPx, Ptot, TVP, Pabs ASVP, T(V/L)
- Test Memory: 4 million test reports available

Setavap3 provides the next generation of automated vapour pressure testing. The design implements a robust measuring chamber with a movable piston for testing gasoline, solvents, crude oils, LPG and similar products in strict compliance with ASTM, IP and ISO methodology. Setavap3 is suitable for a broad range of applications including terminals, refineries, mobile testing, independent laboratories and R&D. Setavap3 is extremely easy to operate and can be calibrated in the field, its large colour touch screen allows single press to test functionality and minimises operator involvement. Results are clearly displayed and can be captured using a QR code, emailed, saved to a memory stick, output to LIMS or produced in hard copy with the printer option.

Visit: www.stanhope-seta.co.uk/5056/Setavap3-Automatic-Vapour-Pressure-Analyser

Setavap2 Rapid Automatic Vapour Pressure Tester (81000-2)

ASTM D5191; IP 394; IP 409; IP 481; EN 13016-1; Correlates with ASTM D323; ASTM D5842; ASTM D6378; IP 69

- Rapid vapour pressure testing
- Mini methods - 3 ml sample volume
- Evacuated test chamber
- Automatic drain and purge

Visit: www.stanhope-seta.co.uk/2984/Setavap-2-Vapour-Pressure-Tester



> 80500-0

Seta Part No:	80500-0	81000-2
Temperature Range:	0 to 120°C	37.8°C (100°F) ±0.1°C
Pressure Range:	0 to 1550 kPa	0 to 200kPa ±0.5kPa (0 to 29psi ±0.1psi)
Pressure Resolution:	Conforms to Methods	0.1kPa (0.1psi)
Units of Pressure:	kPa or psi (user selectable)	kPa or psi (user selectable)
Vacuum Requirements:	Not Required	Better than 0.01kPa (abs)
Voltage:	100/240 VAC 50-60 Hz (auto)	110/120V or 220/240V 50/60 Hz (switchable)
Power:	230W	70W
Size (HxWxD) / Weight:	38 x 23 x 37cm / 16kg	37 x 13 x 20cm / 3.5kg



> 12210-0

Existent Gum

Seta Existent Gum Solid Bath Air (12210-0)

ASTM D381-IP 131; IP 540; BS 2000 Part 131; ISO 6246; DIN 51 784; NF M07-004; FTM 791 3302

- 5 Test stations
- Suitable for air operation
- Digital temperature control
- 140 to 260°C temperature range
- Flow gauge calibrated for air

A Solid Block Bath designed to carry out up to five simultaneous tests for determining existent gum content in fuels by the Jet Evaporation method.

Visit: www.stanhope-seta.co.uk/5038/Seta-Existent-Gum-Solid-Block-Bath---Air

Distillation

Setastill Distillation (11860-3)

ASTM D86; IP 123; ISO 3405

- Ambient to 400°C distillation range
- Adjustable height heater/flask platform
- Toughened glass window
- Cooling fan

The distillation unit, mounted to the left, comprises a flask support mechanism, heater elements, and the heater controller. The flask is supported by a drop-in ceramic-glass support board mounted to a platform that is adjustable for height.

The quartz enclosed heating elements are also attached to the platform, and are powered by a solid-state energy regulator and calibrated control. A cooling fan is installed in the rear of the distillation unit to reduce cooling time between distillations.

The condenser unit is attached to the distillation unit, and may be used with either a static fill of coolant or a laboratory cooling supply.

Visit: www.stanhope-seta.co.uk/3391/Setastill-Distillation



> 11860-3

Corrosion

Seta Cu/Ag Block Bath (11310-0)

ASTM D130, ASTM D7667

- ASTM D7667 Thin Silver Strip Corrosion & ASTM D130 Copper Corrosion
- Dry heating for up to 4 test samples
- Accommodates 4 off 25 x 150mm test tubes or 4 off pressure vessels
- Operator can select test set point temperature between range 50 to 150°C
- Stability $\pm 0.1^\circ\text{C}$
- Over temperature cut-off

The Seta Cu/Ag Block Bath is specifically designed for measuring Thin Silver Strip Corrosion to ASTM D7667 and Copper Corrosion to ASTM D130.

The bath features four test wells to accommodate pressure vessels and four test tube pre heating wells for 25mm diameter x 150mm test tubes. A centre hole in the block with a protruding aperture on the top cover is featured, providing a mounting place for a thermometer probe. An integral digital temperature controller is also featured, enabling the operator to select a test set point temperature.

Visit: www.stanhope-seta.co.uk/4951/Seta-Copper-Silver-Block-Bath



> 11310-0

Seta Cu/Ag Corrosion Bath (11300-2)

ASTM D130-IP 154; ASTM D4814; ASTM D7667; ASTM D7671; IP 611; EN ISO 2160

- Copper/Silver Corrosion tests
- Small footprint
- Integral circulation plate
- Over temperature and low level cut out
- Rapid heating

The Seta Cu/Ag Corrosion Bath has two test stations, each with a lid and hook for suspending either a copper corrosion pressure test vessel or a test tube support. A circulation plate is fitted internally to assist in producing an even temperature throughout the bath. Due to the size of the bath and efficient heating system, high temperatures can quickly be achieved.

Visit: www.stanhope-seta.co.uk/4440/Seta-Ag-Cu-Corrosion-Bath



> 11300-2

Silver and Copper Corrosion Bath (11400-7)

ASTM D130-IP 154; ASTM D7667; ASTM D7671; ISO 2160; IP 611

- 9 test stations
- Copper/Silver corrosion tests

The Silver and Copper Corrosion Bath is a stainless steel water and oil bath digitally temperature controlled.

Visit: www.stanhope-seta.co.uk/4444/Silver-and-Copper-Corrosion-Bath

Seta Part No:	11300-2	11400-7	11310-0
Test Stations:	2	9	4
Temperature Range:	Ambient +5 to 120°C	Ambient +5 to 150°C	+20 to 150°C
Temperature Stability:	$\pm 0.1^\circ\text{C}$	$\pm 0.1^\circ\text{C}$	$\pm 0.1^\circ\text{C}$
Bath Fluid:	Water or Oil	Water or Oil	
Bath Capacity:	18 Litres	35 Litres	
Heater Power:	1200W	1500W	
Size (HxWxD) / Weight:	52 x 34 x 23cm / 9kg	52 x 45 x 33cm / 10kg	31 x 37 x 26cm / 31kg

Copper Corrosion Kit for Gasoline & AVTUR (11517-0)

ASTM D130; IP 154; ISO 2160

Supplier with 2 Test Vessels, 10 Test Tubes, 10 Flat Glass Tubes, Copper Strips (30), ASTM Chart, Multi-Strip Vice, Tongs, Polishing Materials & Stopwatch.

Visit: www.stanhope-seta.co.uk/4967/Copper-Corrosion-Kit-for-Gasoline-&-Avtur---ASTM-D130,-IP-154,-ISO-2160



> 11515-0

Silver Corrosion

Silver Corrosion Test Kit Gasoline (11515-0)

ASTM D7671; IP 611

The kit comprises all accessories required for testing gasoline to ASTM D7671 and IP 611. Suitable for Procedure A & B, supplied with 2 Test Vessels, 10 Test Tubes, Test Tube Holder, 2 Ejector Springs, Multi-Strip Vice, Silver Strips (5), Tongs, 3 Cradles, Vented Stoppers (10), Cable Ties (100), 10 Flat Glass Tubes, ASTM Chart, Polishing Materials & Stopwatch.

Visit: www.stanhope-seta.co.uk/3437/Silver-Corrosion-Test-Kit-for-Gasoline---ASTM-D7671,-IP-611

Thin Silver Strip Corrosion Kit (11516-0)

ASTM D7667

The kit comprises all accessories required for testing gasoline to ASTM D7667. Suitable for Procedure A & B, supplied with 2 Test Vessels, 10 Test Tubes, Silver Strips (20), Centering Device (10), ASTM Chart, Tongs, Polishing Materials & Stopwatch.

Visit: www.stanhope-seta.co.uk/4849/Thin-Silver-Strip-Corrosion-Kit-ASTM-D7667

Oxidation Stability

Seta Auto-Oxi Control System (15452-2)

ASTM D525; ASTM D873; IP 40; IP 138; BS 2000 Part 40; ISO 7536

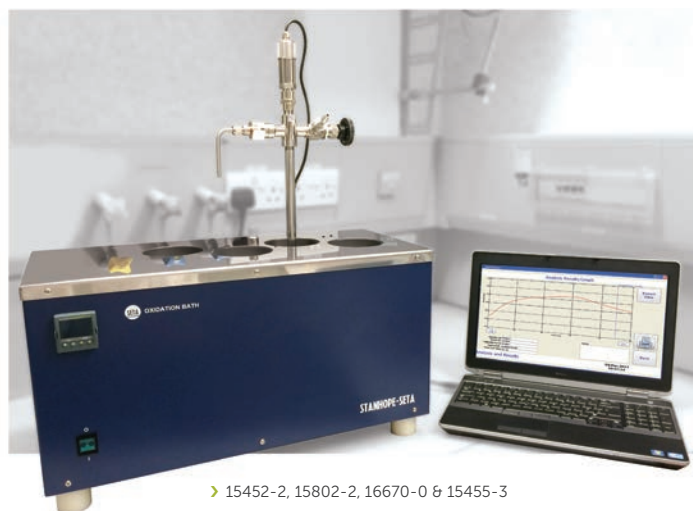
- Automatic Monitoring of up to 4 pressure vessels
- Incorporates purge and leak test
- Automatic breakpoint determination
- Graphical display
- Connects to Seta Pressure Transducers, by USB
- Suitable for use with a range of pressure vessels
- Connects to a PC via USB Data Cable

The Seta Auto-Oxi control system provides automatic monitoring of up to 4 pressure test vessels and is designed for use with all water or dry block temperature baths that conform to the test method specifications.

High quality pressure transducers and system components ensure reliable operation and fully traceable results.

The Auto-Oxi system is supplied programmed with pressure/time test profiles for ASTM D525, IP 40 and ISO 7536 allowing rapid test selection and start. Alternatively custom test profiles are easily programmed by the user. Sample/operator details can also be input.

Visit: www.stanhope-seta.co.uk/5423/Seta-Auto-Oxi-Control-System



➤ 15452-2, 15802-2, 16670-0 & 15455-3



➤ 15400-5

Seta Solid Block Bath 4 Way (16670-0)

ASTM D525, ASTM D873, BS 2000 Parts 40 & 138, EN ISO 7536, IP 138, IP 40

- Aluminium block bath
- Ambient to +5 to 100°C
- Dry block bath
- 4 test stations
- Digital temperature control
- Small footprint

Visit: www.stanhope-seta.co.uk/3844/Oxi-Solid-Block-Bath-4-Way

Seta Auto-Oxidation Stability Bath (15400-5)

ASTM D525, ASTM D873, BS 2000 Parts 40 & 138, EN ISO 7536, IP 138, IP 40

- Induction period measurement for oxygen in gasoline
- Constant level device
- Integrated vessel charge system
- Seta Auto-Oxi Automatic Pressure monitoring
- Water Bath with integral condenser
- Cold plunge bath

Visit: www.stanhope-seta.co.uk/4764/Seta-Auto-Oxidation-Stability-Bath

Seta Part No:	16670-0	15400-5
Temperature Range:	Ambient +5 to 100°C	Bath: 100°C
Bath Type:	Dry block	Water bath
Bath Capacity:	n/a	60 Litres
Bath Fluid:	n/a	Water
Max No. of Test Vessels:	4	4
Size (HxWxD) / Weight:	30 x 60 x 28cm / 65kg	135 x 85 x 77cm / 87kg

Multi Test Verification Material

MTVM - Motor Gasoline 500ml (99854-0)

ASTM D1298; ASTM D1319-IP 156; ASTM D2699; ASTM D2700; ASTM D5191; ASTM D86; IP 123; IP 394

- A highly cost effective solution to laboratory verification requirements
- Verification to ASTM/CEN/ISO/IP & equivalent test procedures
- Assistance for operator training
- Cross-checks instrument performance using real product sample

A unique secondary reference material that provides traceable validation of different test parameters from one sample.

Rapid global delivery and compliance with ISO 17025 and ISO 9001 requirements, mean that Seta's verification materials offer readily available support for laboratory accreditation and compliance programmes.

Visit: www.stanhope-seta.co.uk/2116/MTVM---Motor-Gasoline-500ml



➤ 99854-0

Test Name	ASTM / Method	Range	Amount/test
Motor Octane No.	D2700; ISO 5163	83 to 90 %vol	-
Research Octane No.	D2699; ISO 5164	92 to 101 RON	-
Density at 15°C	D4052; IP 365; ISO 12185	0.721 to 0.763 kg/l	Up to 2ml
Distillation IBP	D86-IP 23; EN ISO 3405	31 to 39°C	100ml
Distillation 70°C	D86-IP 23; EN ISO 3405	15 to 46 %vol	100ml
Distillation 100°C	D86-IP 23; EN ISO 3405	36 to 58 %vol	100ml
Distillation 150°C	D86-IP 23; EN ISO 3405	75 to 97 %vol	100ml
Distillation FBP	D86-IP 23; EN ISO 3405	174 to 205°C	100ml
Aromatics FIA	D1319; IP 156	19 to 42 %vol	0.75ml
Olefins FIA	D1319; IP 156	1.5 to 16 %vol	0.75ml
Saturates FIA	D1319; IP 156	42 to 72 %vol	0.75ml
Vapour Pressure	D5191; IP 394; EN 13016-1	50 to 85kPa	3ml