

# SILVER STRIP CORROSION TEST FOR GASOLINE

# A NEW TEST INCLUDED IN ASTM D4814 AND IP PM-DJ 2005 STANDARD SPECIFICATION FOR AUTOMOTIVE SPARK-IGNITION ENGINE FUEL

In response to recent problems raised by the automotive industry relating to malfunctions caused by corrosion and tarnishing of silver alloy components in fuel systems, particularly in-tank fuel gauge sender units, ASTM and the EI have updated their methods to include a Silver Strip Corrosion Test. The new tests are:

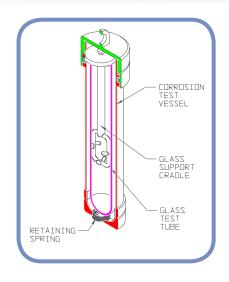
- More reactive to sulphur species than copper strip.
- Will detect lower levels of H2S and sulphur
- Now being mandated by major multinational oil companies

The Silver Corrosion test is performed using a polished silver strip which is immersed in a specific volume of sample inside a pressure vessel under controlled temperature conditions.

Stanhope-Seta offer all necessary glassware and accessories to enable silver strip corrosion tests to be performed in accordance with ASTM D4814-04b and IP PM-DJ 2005.

Please refer to product information shown overleaf







Colour Standard



Silver Corrosion kit



Tel: +44 (0)1932 564391 Fax: +44 (0)1932 568363 E-mail: sales@stanhope-seta.co.uk Website: www.stanhope-seta.co.uk



## **TECHNICAL EXCELLENCE FROM STANHOPE-SETA**







#### **SUITABLE BATHS**

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Seta Model	11300-0	11400-6	15550-2
Purpose	Copper Corrosion	Copper Corrosion	Copper Corrosion
	Silver Corrosion (D4814)	Silver Corrosion	Silver Corrosion
		Oxidation	
No of Test Stations	2	9	4
Temp Range	40 to 100°C	40 to 150°C	Ambient to 150°C
Temp Stability	±0.5°C	±0.5°C	±0.5°C
Bath Fluid	Water	Water or Oil	Water or Oil
Bath Capacity	18 Litres	35 Litres	35 Litres
Heater Power	1500VV		
Supply Voltage	110/120V, 60Hz or 220/240V, 50Hz		
Size (HxWxD)	52x34x23cm	52x45x33cm	41x45x33cm
Weight	9kg	10kg	10kg

### **SILVER STRIP CORROSION TEST**

11500-0 CORROSION TEST VESSEL, stainless steel, '0' ring seal,

screw top

11520-0 TEST TUBE EJECTOR SPRING 11590-0 TEST TUBE, 25x150mm, pack of 10

11490-0 GLASS SUPPORT CRADLE, to accept silver test strip
11440-0 SILVER TEST STRIPS, 99.9% Ag with material certificate (pack

of 5)

22750-2 DIGITAL STOPWATCH, ASTM12C THERMOMETER

**Results Analysis** 

11570-0 FLAT GLASS TEST TUBE, protects strip during inspection

(nack 10)

11450-0 ASTM COLOUR STANDARD, ASTM D1660, D3241/IP323, D4814

**Sample Preparation** 

11460-0 SILICON CARBIDE PAPER, 65µm (240 grit FEPA) 28x23cm,

pack 25

11480-0 SILICON CARBIDE GRAINS, 105µm (150 mesh) 500g/pk,

5 packs

11530-0 SETA MULTI-STRIP VICE, holds up to 5 strips while polishing

Distributed by



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E-mail: sales@stanhope-seta.co.uk Website: www.stanhope-seta.co.uk