

**Elcometer 2290**

**Daniel Flow Gauge**

**Operating Instructions**

elcometer® is a registered trademark of Elcometer Instruments Ltd.

All other trademarks acknowledged.

© Copyright Elcometer Instruments Ltd. 2006.

All rights reserved. No part of this Document may be reproduced, transmitted, transcribed, stored (in a retrieval system or otherwise) or translated into any language, in any form or by any means (electronic, mechanical, magnetic, optical, manual or otherwise) without the prior written permission of Elcometer Instruments Ltd.

## CONTENTS

---

Section	Page
1 About this instrument .....	2
2 Measuring the fluidity of a liquid .....	3
3 Technical specification .....	5
4 Related equipment .....	5

Thank you for your purchase of this Elcometer 2290 Daniel Flow Gauge. Welcome to Elcometer.

Elcometer are world leaders in the design, manufacture and supply of inspection equipment for coatings and concrete. Our products cover all aspects of coating inspection, from development through application to post application inspection.

This Elcometer 2290 Daniel Flow Gauge is a world beating product. With the purchase of this product you now have access to the worldwide service and support network of Elcometer. For more information visit our website at [www.elcometer.com](http://www.elcometer.com)

## **1 ABOUT THIS INSTRUMENT**

---

The Elcometer 2290 Daniel Flow Gauge is a simple but effective instrument which is used to determine the flow characteristics of thick or paste-like materials such as paints and similar products.

The product being tested is placed in a reservoir on the gauge. When the reservoir is raised to a vertical position, the product flows out over a graduated plate. The distance travelled by the product over a certain time is measured and is an indication of the fluidity of the product.

### **1.1 WHAT THE BOX CONTAINS**

- Elcometer 2290 Daniel Flow Gauge
- Operating instructions

The Elcometer 2290 Daniel Flow Gauge is packed in a cardboard and foam package. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

To maximise the benefits of your new Elcometer 2290 Daniel Flow Gauge please take some time to read these Operating Instructions. Do not hesitate to contact Elcometer or your Elcometer supplier if you have any questions.

## **2 MEASURING THE FLUIDITY OF A LIQUID**

---

### **2.1 BEFORE YOU START**

Ensure that your Elcometer 2290 Daniel Flow Gauge is clean and dry.

### **2.2 PROCEDURE**

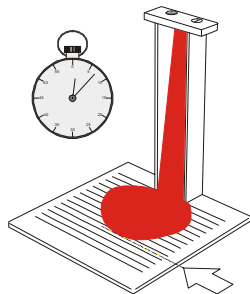
1. Place the instrument on a flat horizontal surface with the product reservoir horizontal.
2. Pour a quantity of the product to be tested into the reservoir.



3. Rotate the instrument through 90° until the reservoir is vertical and immediately start a stop watch.

The product runs out of the reservoir and flows out over the graduated plate.

4. At the end of the time specified, record the distance the product has flowed over the graduated plate.
5. It is recommended that the test is carried out three times with test times of 10 s, 30 s and 60 s.



### 2.3 AFTER THE TEST

Always clean the instrument thoroughly after a test.



Do not use very aggressive solvents or wire brushes, metal scrapers, metal files or other metallic tools for cleaning.



Clean the gauge using a suitable solvent only.

After cleaning, ensure that all materials are removed and that the instrument is dry.

### 3 TECHNICAL SPECIFICATION

---

Viscosity test range:	2000 cSt to 60 000 cSt at 25°C
Reservoir volume (approx.):	40 ml (1.35 fl oz)
Material:	Aluminium and stainless steel
Scale:	0 to 26
Scale resolution:	0.5 units

### 4 RELATED EQUIPMENT

---

In addition to the Elcometer 2290 Daniel Flow Gauge, Elcometer produces a wide range of other coating testing equipment.

Users of the Elcometer 2290 Daniel Flow Gauge may also benefit from the following Elcometer products:

- Elcometer 7300 Digital Stopwatch
- Elcometer Fineness of Grind Gauges
- Elcometer Viscosity Cups
- Elcometer 2280 Matthis Fluidometer
- Elcometer Viscosity Meters
- Elcometer Film Applicators

For further information contact Elcometer or your local supplier. Details of Elcometer offices around the world are given on the outside cover of these operating instructions. Alternatively visit the Elcometer website, [www.elcometer.com](http://www.elcometer.com)