

elcometer®  
inspection equipment



Elcometer 1615  
Variable Impact Tester

## Elcometer 1615

## Variable Impact Tester

This simple to use gauge is ideal for evaluating the resistance of a coating to impact (elongation, cracking or peeling), and is suitable for use on both direct and indirect test methods.

**Direct:** either a weight with a hemispherical punch attached falls on to a coated metal sheet.

**Indirect:** a weight falls on to a hemispherical punch which is resting on the coated metal sheet.

The Elcometer 1615 Impact Tester comes as one universal assembly with the option of seven different kits providing the functionality for various testing methods.

The base unit is common to all tests. Simply select the appropriate kit to meet your requirements, for more information see page 4.

The test specimen is fixed into position by the quick release clamp. The weight is lifted to the predetermined height and can be set by the adjustable collar device. The weight is then released and the resulting deformation is observed.



Tube height  
1000mm (39")

Fast and safe weight  
release mechanism

Graduated tube engraved in both  
kg-cm & lb-inch (1m, 39" height)  
metric and imperial units

Integrated bubble level to ensure  
the tester is perpendicular for  
repeatable accurate results

Stop collar with 10  
settings between 2mm  
and 15mm (0.08 and  
0.60") to change the depth  
of impact when working  
in accordance with ISO  
Standards, supplied with  
Kits A, D and F

Magnifier x10

Heavy-duty, passivated base  
plate and anodised arm to  
prevent rusting

Rapid fix sample clamp;  
the test sample can be  
secured or released by a  
simple twist of the clamp  
handle supplied with Kits  
A, D and F

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### Variable Impact Tester Kits

The Elcometer 1615 Variable Impact Testers are designed to meet a wide range of National and International Standards. Simply select the appropriate kit from page 4 and attach the punch, die and accessories to the base unit.

Interchangeable dies - enable the user to match the die to the size of the relevant punch to conform to the required Standard or method.



**STANDARDS:**  
 ASTM D 2794, ASTM D 5420,  
 AS/NZS 1580.406.1, BS 6496:1984,  
 BS 3900-E13, ECCA T5,  
 EN 12206-1:2004, EN 13523-5,  
 ISO 6272:1993, ISO 6272-1,  
 ISO 6272-2, JIS K 5600-5-3:1999,  
 NF T30-017:1989

### Technical Specification

Part Number	Description
K0001615M201	Elcometer 1615 Impact Tester Universal Base Unit and Tube
Weight	10.6kg (23.34lb)
Dimensions	1460 x 200 x 165mm (57.5 x 8.0 x 6.5")
Packing List	Elcometer 1615 Impact Tester with passivated base, integrated bubble leveller, graduated tube, collar release mechanism, magnifier (x6), 4mm Allen key, operating instructions and carry case

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### Elcometer Impact Tester Kits

In order to test a sample in accordance with a specified standard, a number of kits have been created to provide a single Impact Tester which, by using the appropriate kit, allow the user to work in accordance with a wide range of National and International standards.



Part Number	Description	Certificate
<b>KT001615KITA</b>	Elcometer Impact Tester Kit A	○

**Kit A:** Falling 1kg (2.2lb) weight with a 20mm (0.79") punch; 27mm (1.06") die with fixing screw; sample clamp with two fixing screws; stop collar\*; 3mm (0.12") and 4mm (0.16") hexagonal wrench

**STANDARDS:**

ISO 6272:1993, EN 13523, JIS K 5600-5-3, DIN EN ISO 6272-1



Part Number	Description	Certificate
<b>KT001615KITB</b>	Elcometer Impact Tester Kit B	○

**Kit B:** Falling 1kg (2.2lb) weight with static indenter with 15.9mm (0.6") punch; 12.7mm (0.5") punch; 16.3mm (0.64") die with fixing screw; 3mm (0.12") hexagonal wrench

**STANDARDS:**

ASTM D 2794, BS EN ISO 6272-2, ISO 6272-2 :2002, Qualicoat



Part Number	Description	Certificate
<b>KT001615KITC</b>	Elcometer Impact Tester Kit C	○

**Kit C:** Falling 2lb (908g) weight with static indenter with 15.9mm (0.6") punch; 16.3mm (0.64") die with fixing screw; 3mm (0.12") hexagonal wrench

**STANDARDS:**

ASTM D 2794, ASTM D 5420, BS6496:1984, EN 12206-1



Part Number	Description	Certificate
<b>KT001615KITD</b>	Elcometer Impact Tester Kit D	○

**Kit D:** Falling 1kg (2.2lb) weight with 20mm (0.79") punch and stop key; 27mm (1.06") die with fixing screw; stop collar\*; sample clamp with fixing screws; 3mm (0.12") and 4mm (0.16") hexagonal wrench

**STANDARDS:**

ISO 6272-1, BS EN ISO 6272-1, NF EN ISO 6272-1

\* Values: 2, 3, 4, 5, 6, 7, 8, 9, 10 & 15mm (0.08, 0.12, 0.16, 0.20, 0.24, 0.28, 0.31, 0.35, 0.39 & 0.60")

○ Optional Calibration Certificate available.

## Elcometer Impact Tester Kits

### Elcometer 1615

Part Number	Description	Certificate
<b>KT001615KITE</b>	Elcometer Impact Tester Kit E	○

**Kit E:** Falling 400g (0.9lb) weight with 23mm (0.90") punch; 22mm (0.87") die with fixing screw; 3mm (0.12") hexagonal wrench



**STANDARDS:**  
NF T30-017:1989

Part Number	Description	Certificate
<b>KT001615KITF</b>	Elcometer Impact Tester Kit F	○

**Kit F:** Falling 1kg (2.2lb) weight with a 20mm (0.79") punch; 27mm (1.06") die with fixing screw; Falling 1kg (2.2lb) weight with 12.7mm (0.5") punch; sample clamp with two fixing screws; 16.3mm (0.64") die with fixing screw; stop collar\*; static indenter with 15.9mm (0.6") punch; 3mm (0.12") hexagonal wrench; 4mm (0.16") hexagonal wrench



**STANDARDS:**  
ASTM D 2794, BS EN ISO 6272, DIN EN ISO 6272-1, EN 13523-5, ISO 6272, Qualicoat 2006, SN EN ISO 6272-1

Part Number	Description	Certificate
<b>KT001615KITG</b>	Elcometer Impact Tester Kit G	○

**Kit G:** Falling 1kg (2.2lb) weight with a 15.9mm (0.62") static indenter with handle and punch; 12.7mm (0.5") static indenter with handle and punch; 16.3mm (0.64") die with fixing screw; guide bracket with two fixing screws; 3mm (0.12") hexagonal wrench; 4mm (0.16") hexagonal wrench

Additional 1kg (2.2lb) weights are available as an optional extra.



**STANDARDS:**  
BS EN ISO 6272-2:2011

For a full range of kits, dies and other accessories to meet a wide range of National and International Standards see page 4



○ Optional Calibration Certificate available.

## Elcometer 1615

## Variable Impact Tester Accessories



The following range of accessories have been designed to help you evaluate the resistance of a coating to impact (elongation, cracking or peeling) when used in conjunction with the Elcometer 1615 Variable Impact tester.

Punches are universal and can be used either fitted to a falling weight or as a punch resting on the sample.

### Accessories

		Suitable for Kit						
		A	B	C	D	E	F	G
KT001615N201	Additional 1kg (2.2lb) Falling Weight, 24.6mm (0.97 ) Diameter				■			
KT001615N221	Additional 1kg (2.2lb) Falling Weight, 25.0mm (0.98 ) Diameter	■					■	■
KT001615N226	20mm (0.79") Diameter Punch (Outside Diameter 25mm)	■					■	
KT001615N215	12.7mm (0.5") Diameter Punch		■				■	
KT001615N205	15.9mm (0.6") Diameter Punch		■	■			■	
KT001615N206	20mm (0.79") Diameter Punch (Outside Diameter 24.6mm)				■			
KT001615N207	23mm (0.9") Diameter Punch					■		
KT001615N216	Static Indenter with 12.7mm/0.5" Diameter Punch							■
KT001615N217	Static Indenter with 15.9mm/0.6" Diameter Punch							■
KT001615N208	Stop Ring Collar	■			■		■	
KT001615N209	Sample Clamp Mechanism	■			■		■	
KT001615N210	Weight Release Mechanism	■	■	■	■	■	■	■
KT001615N211	Replacement Graduated Tube	■	■	■	■	■	■	■
KT001615N212	16.3mm (0.64") Die		■	■			■	
KT001615N232	16.3mm (0.64") Die (with 1.5mm Radius)							■
KT001615N213	22mm (0.87") Die					■		
KT001615N214	27mm (1.06") Die	■			■		■	