

Elcometer 1615 Variable Impact Testers

Can work in accordance with:

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, NFT30-017:1989



The Elcometer 1615 Variable Impact Tester is a simple to use gauge ideal for evaluating the resistance of a coating to impact (elongation, cracking or peeling).

- Heavy-duty passivated base plate and anodised arm for long life
- Graduated tube with engraved markings
- Quick, safe weight release mechanism
- Integrated bubble level to ensure the tester is perpendicular for accurate results
- Stop collar with 10 settings between 2mm and 15mm to change the depth of impact when working in accordance with ISO Standards, supplied with Kits A, D and F
- Easy 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
- Magnifier 10X

There are two impact test methods: either a weight with a hemispherical punch attached falls on a coated metal sheet or 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 six different kits providing the functionality for various impact testing methods.

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.

The base unit is common to all tests. Simply select the appropriate impact tester kit to meet your requirements.

*Standards not in **bold** have been superseded but are still recognised in some industries.



Variable 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 allows, the user to work in accordance with a wide range of National and International standards.



Graduated Tube

The tube has clearly engraved, graduated markings in both kg-c and lb-inch to ensure accuracy and a quick, safe weight release mechanism which holds the weight safely and allows a smooth release.

Tube height: 1000mm.



Stop Collar

The stop collar, supplied with Kits A, D and F or as an optional accessory, allows the penetration depth to be limited. By rotating the stop collar, the user can select the depth required between 2-15mm.

Values: 2,3,4,5,6,7,8,9,10 and 15mm

Each Impact Tester is supplied with an integrated bubble level ensuring accurate setup prior to anytest.



Base Unit

The Elcometer 1615 Variable Impact Testers are designed to meet a wide range of National and International Standards. Simply select the appropriate kit and attach the punch, die and accessories to the base unit. Interchangeable die - enables the user to match the die to the size of the relevant punch to conform to the required Standard or method.

The optional easy to fix sample clamp enables the user to quickly and safely secure the sample.

Technical Specifications

Variable Impact Tester

Part Number	Description
K0001615M201	Elcometer 1615 Impact Tester Universal Base Unit and Tube
Weight	10.6kg
Dimensions	1460 x 200 x 165mm

Impact Tester Kits

Part Number	Description	Certificate
KT001615KITA	Elcometer 1615 Impact Tester Kit A to meet ISO 6272:1993 Standard	o
KT001615KITB	Elcometer 1615 Impact Tester Kit B to meet ISO 6272 Part 2:2002 Standard	o
KT001615KITC	Elcometer 1615 Impact Tester Kit C to meet ASTM D2794 Method 2, BS6496:1984, EN 12206-1 Standards	o
KT001615KITD	Elcometer 1615 Impact Tester Kit D to meet ISO 6272 Part 1:2002, BS EN ISO 6272-1:2004 Standards	o
KT001615KITE	Elcometer 1615 Impact Tester Kit E to meet NF T30-017:1989 Standard	o
KT001615KITF	Elcometer 1615 Impact Tester Kit F to meet ISO 6272:1993, ISO 6272- 2:2002 Standards	o
KT001615KITG	Elcometer 1615 Kit G to meet BS EN ISO 6272-2:2011	o

o Optional Calibration Certificate available

Packing List

Elcometer 1615 Impact Tester Universal Base Unit and Tube

Base Plate

Guide tube supporting arm

Guided Tube

Release Collar (*fitted to guide tube*)

4mm Hexagonal Wrench

Magnifier 10X

Operating Instructions

Kit A: Elcometer 1615 Impact Tester Kit A to meet ISO 6272:1993 Standard

Falling 1kg weight with a 20mm punch

27mm die with fixing screw

Sample clamp with two fixing screws

Stop Collar*

3mm and 4mm Hexagonal Wrench

Operating Instructions



Kit B: Elcometer 1615 Impact Tester Kit B to meet ISO 6272 Part 2:2002 Standard

Falling 1kg weight with static indenter with 15.9mm

12.7mm Punch

16.3mm die with fixing screw

3mm Hexagonal Wrench

Operating Instructions



Kit C: Elcometer 1615 Impact Tester Kit C to meet ASTM D2794 Method 2, BS6496:1984, EN 12206-1 Standards

Falling 908g weight with static indenter with 15.9mm

16.3mm die with fixing screw

3mm Hexagonal Wrench

Operating Instructions



Kit D: Elcometer 1615 Impact Tester Kit D to meet ISO 6272 Part 1:2002, BS EN ISO 6272-1:2004 Standards

Falling 1kg weight with a 20mm punch and stop key

27mm die with fixing screw

Sample clamp with two fixing screws

Stop Collar*

3mm and 4mm Hexagonal Wrench

Operating Instructions



Kit E: Elcometer 1615 Impact Tester Kit E to meet NF T30-017:1989 Standard

- Falling 400g weight with 23mm punch
- 22mm die with fixing screw
- 3mm Hexagonal Wrench
- Operating Instructions



Kit F: Elcometer 1615 Impact Tester Kit F to meet ISO 6272:1993, ISO 6272- 2:2002 Standards

- Sample clamp
- Stop Collar
- 27mm die
- Falling 1kg indenter with a 20mm punch
- Indenter with 15.9mm punch
- Indenter with 12.7mm punch
- Indenter with 16.3mm die
- Falling 1kg weight
- 2 x Hexagonal Wrench
- Operating Instructions



Kit G: Elcometer 1615 Kit G to meet BS EN ISO 6272-2:2011 Standard

- Falling 1kg weight with a 15.9mm static indenter with handle and punch
- 12.7mm static indenter with handle and punch
- 16.3mm die with fixing screw
- Guide bracket with two fixing screws
- 3mm and 4mm Hexagonal Wrench
- Operating Instructions



* Values: 2, 3, 4, 5, 6, 7, 8, 9, 10 & 15mm

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.



Part Number	Description	Suitable for Kit								
		A	B	C	D	E	F	G		
KT001615N201	Additional 1kg Falling Weight, 24.6mm Diameter				■					
KT001615N221	Additional 1kg Falling Weight, 25.0mm Diameter	■						■	■	
KT001615N226	20mm Diameter Punch (<i>Outside Diameter 25mm</i>)	■						■		
KT001615N215	12.7mm Diameter Punch		■					■		
KT001615N205	15.9mm Diameter Punch		■	■				■		
KT001615N206	20mm Diameter Punch				■					
KT001615N207	23mm Diameter Punch					■				
KT001615N216	Static Indenter with 12.7mm Diameter Punch								■	
KT001615N217	Static Indenter with 15.9mm Diameter Punch								■	
KT001615N208	Stop Ring Collar	■			■			■		
KT001615N209	Sample Clamp Mechanism	■			■			■		
KT001615N210	Weight Release Mechanism	■	■	■	■	■	■	■	■	
KT001615N211	Replacement Graduated Tube	■	■	■	■	■	■	■	■	
KT001615N212	16.3mm Die		■	■				■		
KT001615N232	16.3mm Die (<i>with 1.5mm Radius</i>)								■	
KT001615N213	22mm Die					■				
KT001615N214	27mm Die	■			■			■		