elcometer

Elcometer 3095 Buchholz Hardness Tester

Can be used in accordance with:
BS 3900 E9*, DIN 53153*, ECCA T12*, **EN ISO NF 2815 &** NF T 30-052*

Measuring a coating's hardness using the indentation method, the Elcometer 3095 Buchholz Hardness Tester consists of a bevelled disc indenting tool which is fitted into a stainless steel block exerting a constant test load of 500g.

The gauge is placed on to the coating and then removed after 30 seconds. The length of any subsequent indentation in the coating is measured using the graduated microscope.

The result is expressed as units of Buchholz Indentation Resistance using the scale provided.

Measure of Buchholz Hardness

Indentation Length	Indentation Resistance	Indentation Depth	Minimum coating thickness for which a measurement is valid
mm		µm	µm
0.8	125	5	15
0.85	118	6	20
0.9	111	7	20
0.95	105	7	20
1	100	8	20
1.05	95	9	20
1.1	91	10	20
1.15	87	11	25
1.2	83	12	25
1.3	77	14	25
1.4	71	16	30
1.5	67	18	30
1.6	63	21	35
1.7	59	24	35

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Technical Specifications

Part Number	Description	Certificate
K0003095M001	Elcometer 3095 Buchholz Hardness Tester	o
Dimensions	360 x 310 x 120mm	
Weight	2.9kg	

o Optional Calibration Certificate available
* Standards not in bold have been superseded but are still recognised in some industries

Packing List

- Elcometer 3095 Buchholz Hardness Tester
- Indentation tool with bevelled disc and two locating pins
- Pin Adjusting Shim
- x20 Illuminated Microscope
- Indentation locator template
- Hexagonal Wrench
- Plastic Carry Case
- Operation Instructions

Accessories

KT003095P001	Spare Pin Supports (x2)
KT003095P002	Bevelled Hardened Steel Disc Indenter

Video

YouTube Video - There are a number of ways to test the hardness of a coating.
(Click on the image to the left to view the video)

One method is the indentation method, using the Elcometer 3095 Buchholz Hardness Tester; where a known downward force is applied to a formed shape for a predefined timeframe, and the amount of indentation left in the coating is measured.