Elcometer 3095 Buchholz Hardness Tester

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 (17.6oz).

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.

STANDARDS:
BS 3900-E9, DIN 53153, ISO 2815, NF T30-052

Measure of Buchholz Hardness

Indentation Length		Indentation Resistance	Indentation Depth		Minimum coating thickness for which a measurement is valid	
µm	mm		µm	mils	µm	mils
20	0.8	125	5	0.2	15	0.59
21	0.85	118	6	0.24	20	0.79
23	0.9	111	7	0.28	20	0.79
24	0.95	105	7	0.28	20	0.79
25	1.0	100	8	0.31	20	0.79
38	1.05	95	9	0.35	20	0.79
28	1.1	91	10	0.39	20	0.79
29	1.15	87	11	0.43	25	1
30	1.2	83	12	0.47	25	1
33	1.3	77	14	0.55	25	1
35	1.4	71	16	0.63	30	1.18
38	1.5	67	18	0.71	30	1.18
41	1.6	63	21	0.83	35	1.38
43	1.7	59	24	0.94	35	1.38

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Technical Specification

Part Number	Description	Certificate
K0003095M001	Elcometer 3095 Buchholz Hardness Tester	○
Dimensions	360 x 310 x 120mm (14.2 x 12.2 x 4.7”)	
Weight	2.9kg (6.4lb)	
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 and operating instructions	

Accessories

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

○ Optional Calibration Certificate available.