Productivity Reliability Repeatability Traceability

Hardness



Handheld Durometers

Wallace offers both analogue and digital Handheld Durometers (including Shore A, Shore D and Shore OO). These durometers enable accurate and repeatable results in accordance with the relevant standards. All models are designed for handheld applications or in conjunction with the Wallace Handheld Durometer Stand (WAH18).

Features

- Accurate and repeatable results
- Non-reflective, full 360° dial face
- Excellent 1/2 point accuracy
- Digital model connects directly to your PC for data transfer
- Digital model has resolution 0.1 and auto-off function
- Conforms to various ISO, ASTM standards

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Digital Durometer

Accessories

A range of feet attachments for hard to reach and narrow areas or irregular shapes.

Principle of Operation

The Wallace Handheld Durometers are designed for measuring the hardness of various materials. Simply pressing the unit vertically onto the sample will cause the indenter to penetrate the sample under a specific spring force. The indention is converted to a hardness value.

To increase repeatability and accuracy, use the handheld unit in conjunction with the H18 stand. This will ensure that repeatable force and perpendicularity are maintained, thus increasing the repeatability and accuracy of each test.



Analogue Durometer A



Productivity Reliability Repeatability Traceability



Handheld Durometers

Specifications

SHORE TYPE	Standard	Foot Force	Spring Force	Indenter Shape & Diameter	Max. Indention Depth	Sample Thickness	Measurement Range	Application Material
А	ASTM D2240 ISO 48-4 ISO 868	1kg	8.05N	35° Truncated Cone (Frustrum)	2.50mm	>6mm	10 - 90 A Below 20 D	Soft, vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt and leathers.
В	ASTM D2240 ISO 48-4	1kg	8.05N	30° Cone	2.50mm	>6mm	Above 90 A Below 20 D	Moderately hard rubber, thermoplastic elastomers, paper products and fibrous materials.
С	ASTM D2240 ISO 48-4	5kg	44.45N	35° Truncated Cone (Frustrum)	2.50mm	>6mm	Above 90 B Below 20 D	Medium hard rubber, thermoplastic elastomers, medium hard plastics and thermoplastics.
D	ASTM D2240 ISO 48-4 ISO 868	5kg	44.50N	30° Cone	2.50mm	>6mm	Above 90 A	Hard rubber, thermoplastic elastomers, harder plastics and rigid thermoplastics.
DO	ASTM D2240 ISO 48-4	5kg	44.45N	Ø 2.38mm ½ Ball	2.50mm	>6mm	Above 90 C Below 20 D	Moderately hard rubber, thermoplastic elastomers, and very dense windings.
0	ASTM D2240 ISO 48-4	1kg	8.05N	Ø 2.38mm ½ Ball	2.50mm	>6mm	Below 20 DO	Soft rubber, thermoplastic elastomers, very soft plastics and thermoplastics, medium-dense textile windings.
00	ASTM D2240 ISO 48-4	0.4kg	1.111N	Ø 2.38mm ⅓ Ball	2.50mm	>6mm	Below 20 O	Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, low density textile windings, human and animal tissue.

Standards

ISO 48-4, ISO 868, ASTM D2240



