Zwick / Roell

Zwick
Materials Testing

Product Information

Hardness tester Zwick 3106

Range of application

The hardness tester Zwick 3106 can be used universally for all hardness tests with depth measurement. The following can be tested to standards:

- The indentation hardness on plastic materials to ISO 2039-1
- The hardness of metals to ASTM E 18
- The Rockwell hardness on metals and plastic materials to ISO 6508
- The hardness of building plaster to DIN 1168-2
- The indentation test on Asphalt to DIN 1996-13
- Resilient floor coverings to DIN EN 433
- The hardness according to Rockwell of carbonaceous materials to DIN 51917
- The hardness of plastics to ASTM D 785
- The hardness of sealing material to ASTM F 36

Special characteristics

- Dead weight loading
- Electronic display of the indentation depth
- Display of the hardness values via an electronic evaluation unit directly in the corresponding hardness unit
- Test data transfer to PC is possible
- Statistics and protocol printout on PC is possible
- Smooth test load application by means of an oilbrake
- Simple handling, short instruction time
- Solid, rugged device
- Cast body, reinforced
- Manual vertical adjustment of the table by means of a hand wheel
- CE-conformity
- Maintenance and DKD calibration by the extensive Zwick Service

PI 242 2.0812

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Desription:		Item number
Hardness tester Zwick 3106: basic device with digital dial gauge, 4 height adjusters for horizontal alignment, and dust cover		**010992**
Loading weights		
Loading weights for test loads 961 / 358 / 132 N load stage 49 N and pre-load of 9.81 N is contained in the basic device		**891346**
Loading weights for Rockwell A, B, C, D, E, F, G, H, K, L, M, R, S, V inclusive of additional weights for pre-load 10 kg		**891347**
Loading weights for Rockwell 45 N, 45 T, 30 N, 30 T, 15 N, 15 T inclusive of additional weights for pre-load 3 kg		**891348**
Loading weights for hardness tests on carbonaceous materials DIN 51917, IEC 413 load stages 20, 40, 60, 100, 150 kg		**891349**
Loading weights for test load stage 500 N (at a pre-load of 3 kg)		**891350**
Additional loading weight 500 N for test load stage 1000 N with test load stage 500 N (at a pre-load of 3 kg)		**891325**
Loading weights for test load stage 300 N (251 N)		**363102**
Loading weights for test load stage 525 N taking the pre-load of 25 N into consideration		**891351**
Loading weights for test load stage 200 N (DIN 1168-1) for pre-load of 10 N for ball indentor 10 mm		**891326**
Ring shaped load to DIN EN 433 (inner dia. 25 mm, mass 0.5 kg		**891355**
Indentors		
Holder with indentor (diamond cone 120°)		**891337**
Ball indentor 1.5875 mm (1/16“)		**891327**
Ball indentor 3.175 mm (1/8“)		**891338**
Ball indentor 6.35 mm (1/4“)		**891339**
Ball indentor 12.7 mm (1/2“)		**891340**
Ball indentor 5 mm with 2 replacement balls		**891341**
Ball indentor 10 mm with 2 replacement balls		**891342**
Compression die, dia. 11.3 mm (100 mm)		**891343**
Compression die, dia. 15.97 mm (200 mm)		**891344**
Compression die, dia. 25.2 mm		**891345**
Support tables		
Support table, dia. 48 mm		**891352**
Support table, dia. 155 mm		**891353**
Support table, dia. 9 mm to ISO 2039-1		**891354**
Electronic evaluation units		
Integrated electronic evaluation unit for **tests on plastics** to ISO 2039-1		**010942**
Integrated electronic evaluation unit for **Rockwell tests** to ISO 6508 (without curvature correction), ASTM E 18, ASTM D 785 (without Alpha Rockwell)		**010949**
Integrated electronic evaluation unit for **hardness tests on carbonaceous materials** (DIN 51917, IEC 413), determination of the **hardness of building gypsum** (DIN 1168-2)		**010954**
PC connection (only in conjunction with electronic evaluation unit)		
Connection cable from the electronic evaluation unit to the PC with adapter set		**891358**
Mains unit 105 V; 60 Hz for 3106 inclusive of an adapter		**363053**
testXpert® options (optional, in conjunction with PC connection)		
Master Test Program for accepting test data from different devices	german	**319290**
via an RS-232 interface	english	**319292**
Standard Test Program for accepting test data from different devices	german	**319955**
via an RS-232 interface	english	**354750**

All data at ambient temperature.