

# NEWAGE® Pocket Brinell Scope

Specification Sheet  
SS-35-450-0310  
March 2010

The NEWAGE® 35-450 Series Brinell Scope features a calibrated reticle in a flat field optical system. This economical instrument accurately measures the indentation diameter from any Brinell hardness tester.

The model 35-450 is a compact, portable reader with a fixed 20X focus. Its illumination system uses an incandescent flashlight for illumination. The flashlight is powered with a single AAA battery, included with the instrument. The reticle is calibrated in 0.1mm units over a range of 6mm. The field of vision is 7mm.

## Features

- Flashlight source is economical
- Battery operated- uses a single AAA battery (included)
- Use on any Brinell applications
- 6mm Reticle scale, 0.1mm scale divisions, 7mm field diameter
- 20X magnification, fixed focus
- Easy-to-Use
- Compact size

## Specifications

<b>Magnification:</b>	20X
<b>Reticle Scale:</b>	6mm
<b>Scale Divisions:</b>	0.1mm
<b>Field Diameter:</b>	7mm
<b>Power:</b>	AAA Battery)
<b>Instrument Weight:</b>	1.5 lbs (700 g)
<b>Shipping Weight:</b>	2 lbs (1 kg)



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## Ordering

### Model 35-450 Series Pocket Brinell Scope

Model	Description
35-450	Pocket Scope, 20X, fixed focus with case

## Reference

Indenter Diameter mm	Hardness Number for Applied Load	
	500	3000
2.0	157.5	945.3
2.1	142.7	856.5
2.2	129.9	779.5
2.3	118.7	712.4
2.4	108.9	653.4
2.5	100.2	601.5
2.6	92.6	555.3
2.7	85.7	514.2
2.8	79.6	477.5
2.9	74.1	444.4
3.0	69.1	414.6
3.1	64.6	387.7
3.2	60.5	363.2
3.3	56.8	340.9
3.4	53.4	320.6
3.5	50.3	302.0
3.6	47.5	284.8
3.7	44.9	269.1
3.8	42.4	254.6
3.9	40.2	241.2
4.0	38.1	228.8
4.1	36.2	217.2
4.2	34.4	206.5
4.3	32.8	196.5
4.4	31.2	187.2

Indenter Diameter mm	Hardness Number for Applied Load	
	500	3000
4.5	29.8	178.5
4.6	28.4	170.4
4.7	27.1	162.8
4.8	25.9	155.6
4.9	24.8	148.9
5.0	23.8	142.6
5.1	22.8	136.6
5.2	21.8	131.0
5.3	20.9	125.6
5.4	20.1	120.6
5.5	19.3	115.9
5.6	18.6	111.4
5.7	17.8	107.1
5.8	17.2	103.0
5.9	16.5	99.2
6.0	15.9	95.5
6.1	15.3	92.0
6.2	14.8	88.7
6.3	14.2	85.5
6.4	13.7	82.5
6.5	13.3	79.6
6.6	12.8	76.8
6.7	12.4	74.1
6.8	11.9	71.6
6.9	11.5	69.1



## MEASUREMENT & CALIBRATION TECHNOLOGIES

For the authorized Newage Distributor or Manufacturer's Representative near you, go to [www.hardnesstesters.com](http://www.hardnesstesters.com)

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