

# Portable Hand – Held Hardness Tester

## Model : ALP-1



### Application for :

- Aluminum
- Aluminum Alloys
- Soft Metals
- Plastics
- Fiber Glass

### Salient Features :

Portable : The ALP-1 is a small portable Hardness Tester having weight around 1 kg., suitable for testing the hardness of aluminum, aluminum alloys, copper, brass & other materials having hardness from 25 to 150 BHN (10 mm ball / 500 kg. Load)

**Easy to Use :** No experience required, can be used in any position. The hardness readings is indicated on the dial gauge which is divided into hundred graduations.

**Testing :** The ALP-1 is best suitable for testing homogeneous materials. For accurate & better results, the thickness of material should be minimum 1 mm thick & minimum 3 mm distance should be kept from the edge of specimen while taking the readings. The testing surface should be smooth. For testing the surface, simply exert a light pressure against the machine, so that spring loaded indenter will penetrate into the material.

<b>Recommended sample sizes to Equalize the Variance of the Average</b>			
<b>Hardness Scale</b>	<b>Readings</b>	<b>No of Readings</b>	<b>Variance of Average</b>
<b>ALP-1</b>	<b>Variance</b>		
<b>Homogeneous Material</b>			
20	2.47	9	0.27
30	2.20	8	0.28
40	1.93	7	0.27
50	1.66	6	0.28
60	1.39	5	0.28
70	1.12	4	0.28
80	0.85	3	0.28
<b>Reinforced Plastics</b>			
30	22.4	29	0.77
40	17.2	22	0.78
50	12.0	16	0.75
60	7.8	10	0.78
70	3.6	5	0.75



## **FINE MANUFACTURING INDUSTRIES**

B-7/12, M.I.D.C. Area, **Miraj- 416 410. (Maharashtra) India.**

Phone : +91 233-2644237, 2644238 Fax. : +91 233-2644913.

e-mail : [response@finemanufacturing.com](mailto:response@finemanufacturing.com) Web Sit : [www.finemanufacturing.com](http://www.finemanufacturing.com)