

Fineness of Grind Gages

Also called grind gages and Hegman gages. Many types of solid materials must be ground or milled into finer particles for dispersion in appropriate liquid vehicles. The physical properties of the resulting dispersions, often called "grinds", depend not only on the actual size of the individual particles, but also on the degree to which they are dispersed.

The Fineness of Grind Gage is used to indicate the fineness of grind or the presence of coarse particles or agglomerates in a dispersion. It does not determine particle size or particle size distribution.

Grind gages are used in controlling the production, storage, and application of dispersion products produced by milling in the paint, plastic, pigment, printing ink, paper, ceramic, pharmaceutical, food, and many other industries.

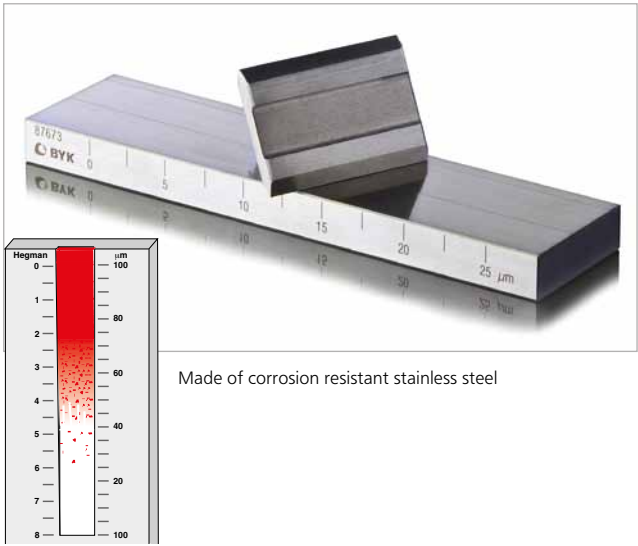
The Fineness of Grind Gage is a flat steel block in the surface of which are two flat-bottomed grooves varying uniformly in depth from a maximum at one end of the block to zero near the other end. Groove depth is graduated on the block according to one or more scales used for measuring particle size.

Most gages will have one scale marked in either mils or microns.
1 mil = 25.4 microns
1 mil = 0.001 inch
1 micron, μm = 0.001 mm or 10^{-6} m

The Hegman scale or National Standard scale may be abbreviated "NS" on the gage. The scale ranges from 0 to 8 with numbers increasing as the particle size decreases.
0 Hegman = 4 mil/100 micron particle size
4 Hegman = 2 mil/50 micron particle size
8 Hegman = 0 mil/0 micron particle size

BYK-Gardner offers a wide variety of grind gages varying in scales, number of grooves, length and width of grooves and size of the block.

Comes in a reusable storage box to prevent damage.



Made of corrosion resistant stainless steel

Standards

ASTM	D 333, D 1210, D 1316
ISO	1524
FTMS	141a, Method 4411.1

Procedure

Place a slight excess of sample in the deep end of the groove, and with the straight-edge scraper provided, draw the sample toward the shallow end of the groove. Ratings are in terms of the point on the scale where the oversize particles, or furrows made by them, first appear in substantial concentration.

Ordering Information

Cat. No.	Description
PD-1518	Replacement Scraper, SS

Accessories

	Net Weight	Shipping Weight
	0.12 kg (0.26 lbs)	0.45 kg (1 lbs)

Certified For Certification Service see page 269.

Labequip
170 Shields Court Unit 2
Markham, ON L3R 9T5
TEL: (905) 475-5880 ext. 226
FAX: (905) 475-1231

Fineness of Grind Gages

Ordering Information

Cat. No.	Description
PD-1509	Grindometer 15*
PD-1510	Grindometer 25*
PD-1511	Grindometer 50*
PD-1512	Grindometer 100*
PD-2500	Gage No. 25
PD-2501	Gage No. 45
PD-2502	Gage No. 65
PD-2503	Gage No. 5251
PD-2504	Gage No. 5252
PD-2505	Gage No. 5254
PD-2506	Gage No. 54
PD-2507	Gage No. 52
PD-2508	Gage No. 51
PD-2509	Gage No. 6251 - G1
PD-2510	Gage No. 6252 - G2
PD-2511	Gage No. 6254 - G3
PD-2512	Gage No. PD-250
PD-2513	Gage No. PB-20
PD-2515	Gage No. SI 1

Technical Specifications

Path Size	No. of Paths	Scales	Range	Dimensions	Net Weight
13 x 130 mm	2	Micron/ Hegman	0 - 15 8 - 6.8	169 x 42 x 13 mm	1 kg (2.2 lbs)
13 x 130 mm	2	Micron/ Hegman	0 - 25 8 - 6	169 x 42 x 13 mm	1 kg (2.2 lbs)
13 x 130 mm	2	Micron/ Hegman	0 - 50 8 - 4	169 x 42 x 13 mm	1 kg (2.2 lbs)
13 x 130 mm	2	Micron/ Hegman	0 - 100 8 - 0	169 x 42 x 13 mm	1 kg (2.2 lbs)
0.5 x 2 in	2	Hegman/ Mils	8 - 0 0 - 5	0.5 x 2.5 x 4.75 in	0.9 kg (2.0 lbs)
0.5 x 4 in	2	Hegman/ Mils	8 - 0 0 - 5	0.5 x 2.5 x 6.75 in	1.6 kg (3.5 lbs)
0.5 x 6 in	2	Hegman/ Mils	8 - 0 0 - 5	0.75 x 2.5 x 8 in	1.8 kg (4.0 lbs)
0.5 x 5 in	2	Microns/ Mils/ Hegman	0 - 25 0 - 1 8 - 6	0.5 x 2.5 x 6.75 in	1.8 kg (4.0 lbs)
0.5 x 5 in	2	Microns/ Mils/ Hegman	0 - 50 0 - 2 8 - 4	0.5 x 2.5 x 6.75 in	1.8 kg (4.0 lbs)
0.5 x 5 in	2	Microns/ Mils/ Hegman	0 - 100 0 - 4 8 - 0	0.5 x 2.5 x 6.75 in	1.8 kg (4.0 lbs)
2 x 5 in	1	Hegman/ Microns	8 - 0 0 - 100	0.75 x 3.5 x 7.5 in	3.6 kg (8.0 lbs)
2 x 5 in	1	Hegman/ Microns	8 - 4 0 - 50	0.75 x 3.5 x 7.5 in	3.6 kg (8.0 lbs)
2 x 5 in	1	Hegman/ Microns	8 - 6 0 - 25	0.75 x 3.5 x 7.5 in	3.6 kg (8.0 lbs)
1 x 6.25 in	2	Hegman/ Micron/ NPIRI	8 - 6 0 - 25 0 - 10	1 x 3.5 x 9.5 in	5.0 kg (11 lbs)
1 x 6.25 in	2	Hegman/ Microns/ NPIRI	8 - 4 0 - 50 0 - 20	1 x 3.5 x 9.5 in	5.0 kg (11 lbs)
1 x 6.25 in	2	Hegman/ Microns/ NPIRI	8 - 0 0 - 100 0 - 30	1 x 3.5 x 9.5 in	5.0 kg (11 lbs)
1 x 6.25 in	2	Microns/ Microns	0 - 50 0 - 250	1 x 3.5 x 9.5 in	5.0 kg (11 lbs)
0.5 x 8 in	2	Mils	0 - 20	1 x 2.5 x 9.5 in	3.0 kg (6.5 lbs)
0.5 x 6 in	2	Microns/ NPIRI	0 - 25 0 - 10	1 x 1.5 x 8 in	1.6 kg (3.5 lbs)

Comes complete with:

Grind block
Scraper
Reusable Storage Case

*Designed to comply with ISO method 1524



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Get it from your authorized distributor: www.labequip.com



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