

STAGE MICROMETERS / GRATICULES (RETICLES)

H.S.E./N.P.L. Test Slide for Phase Contrast Microscopy - S84

This test slide is made in the UK under licence from the National Physical Laboratory.

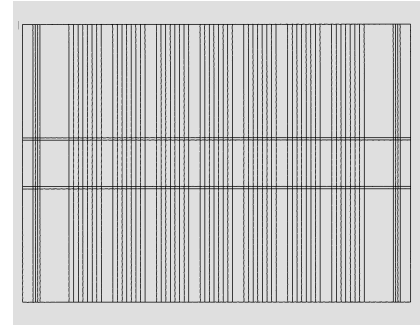
It is an epoxy replica of a master slide produced and certified by that laboratory. The replicas are mounted on microscope slides of 1.2 mm thickness with cover glass of 0.17 mm thickness.

This information is transferred to the accompanying table, which indicates the maximum phase change passing through test objects to test slide.

A satisfactory system will detect block 5. Full details are supplied with the slide.

See also Walton Beckett graticules page 22.

Block No.	Ridge Width (Micrometers)	Maximum Calculated Phase Change (in degrees) for light rays (wavelength = 530 nanometers) passing through test objects.
1	1.08	6.6
2	0.77	4.7
3	0.64	3.9
4	0.53	3.2
5	0.44	2.7
6	0.36	2.2
7	0.25	1.5



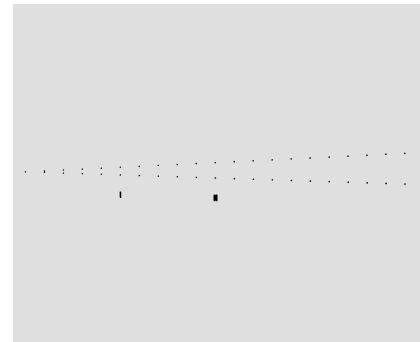
Pattern	Description	Order Code
S84	HSE Test slide for calibration in asbestos analysis.	02F00490

VIBRATION

FOE PPL Dot – S25

The amount of vibration of the slide in the appropriate axis is determined by the pair of dots which appear to merge into a single dot

The pattern on the S25 is an array of 20 pairs of dots converging on a single dot. The distance between each dot pair increases by 0.001 inch to a maximum of 0.02 inches, pairs being equispaced 0.25 inch.



Pattern	Description	Order Code
S25	FOE PPL Dot vibration test pattern.	02A00412

We manufacture components (encoder discs, graticules, metal foils, resolution standards) to custom design, if it is not in the catalogue please contact us for pricing information.

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VOLUME/COUNTING CELLS

These are used to create precise volumes of liquid to enable counting of particles in a specified volume of fluid. A thick slide (glass or plastic) has an area cut into its surface that will hold precise volumes of bathing fluid. The depth is very shallow, facilitating easy counting of contained particles. In use a single drop of liquid is placed on the slide and a coverglass is placed on the platform providing equal and accurate subdivisions of the fluid each of which can be observed for particle counting.

Sedgewick Rafter Cell and Cover Glass – S50, S51, S52

For use in water analysis, culture inspection and any fluid where particles per unit volume need to be determined.

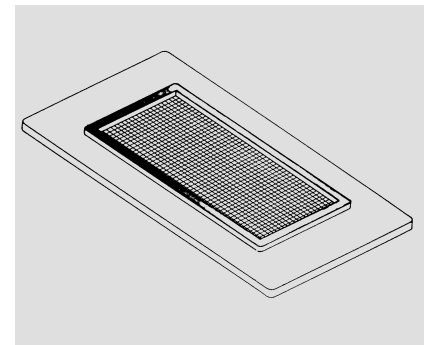
Available in two models:

S50- An economically priced plastic cell.

S52- Made of glass, with chromium surface image. This is intended for continued professional use and when using phase contrast.

In each type a central cell is filled with fluid and a coverglass limits the volume to 1 millilitre. The grid subdivides this into microlitres.

S51- Spare cover glass for S50 and S52. Each cell is supplied with one cover glass.



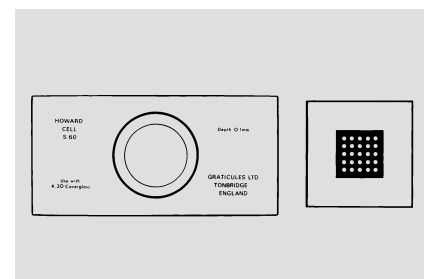
Pattern	Description	Order Code
S50	Sedgewick Rafter Counting chamber (plastic).	02C00415
S52	Sedgewick Rafter Counting chamber (glass).	02B00417
S51	Cover glass for Sedgewick Rafter cells S50 & S52.	02C00416

Howard Cell and Coverglass – S60, K20

The Howard cell is a glass slide 76mm x 35mm with a central circular island and is used for counting mould fibres and spores in fruit juices especially from tomatoes.

With the K20 coverglass in place a 0.1mm thickness of liquid is contained over the central island.

The coverglass has 25 calibrated fields of 1.382mm diameter through which to view the particles. This coverglass removes the necessity of precise adjustment of the microscope and eyepiece graticule in the original Howard method.



Pattern	Description	Order Code
S60	Howard cell for fruit juices.	02C00419
K20	Cover glass for Howard cell.	02C00420

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FINDER GRATICULES

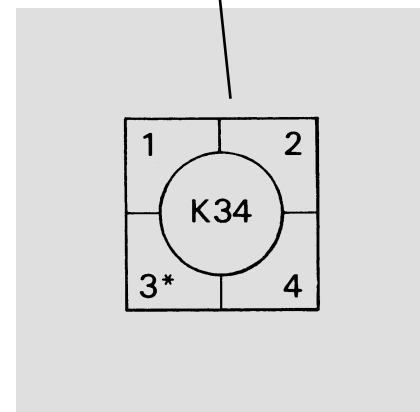
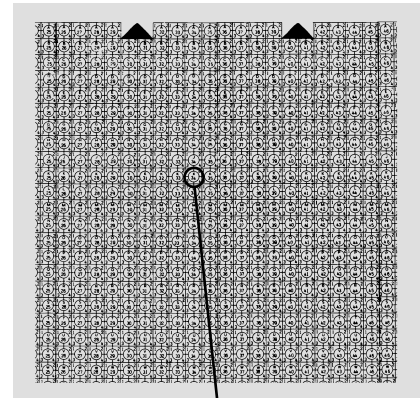
Finder graticules are used to swiftly and accurately give a position of reference to an area of interest on a specimen.

The England Finder – S7

The England Finder is a glass slide marked over the top surface in a way that a referenced position can be directly read relative to the locating edges.

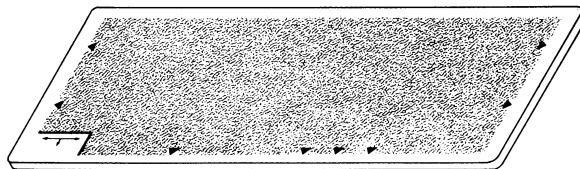
All England Finders produced by Graticules for over 40 years are identical. The purpose of the finder is to give the microscopist an easy method of recording the position of a particular field of interest, so that the same position can be re-located at a later date, or by another person in another laboratory, or when using any other England Finder on any other microscope.

The location of the arrows is identical for all England Finder slides. Mark a label on the left hand side of the specimen slide, indicating the orientation to be repeated. By replacing the specimen slide with the England Finder, taking care not to disturb the position, the feature of interest can be noted. The feature can also be re-located at another place or time by reversing the procedure. A total of 9045 positions on a 76mm x 26mm slide can be accurately located.



*Point of interest K34/3

Pattern	Description	Order Code
S7	The England Finder.	02A00403



The Halton Finder – S30

Pattern as per S7 but covers only a 5mm x 5mm area in the form of a stage graticule.

Pattern	Description	Order Code
S30	The Halton Finder.	02A00413

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