

Particle size comparison chart

Particle size is commonly measured by the use of a series of meshes or sieves with openings of known dimensions.

The values in the table show the size of the openings of the mesh and give an indication of the particle sizes that could be sieved by each one. This is not an exhaustive list as there are many other standard sieve sizes in addition to other sieve 'series' that are not listed here e.g. Renard series.

The actual particle sizes that pass through a mesh are dependent on factors such as surface roughness and morphology, therefore the results achieved from a sieve may differ to other particle sizing methods.

If you would like any advice in relation to your specific application, please contact us on:

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US MESH	TYLER SCREEN	BSS MESH	MICRONS	INCHES	MILLIMETERS	EXAMPLE
18	16	16	1000	0.0394	1.000	
20	20	18	841	0.0331	0.841	
25	24	22	707	0.0280	0.707	beach sand
30	28	25	595	0.0232	0.595	
35	32	30	500	0.0197	0.500	
40	35	36	400	0.0165	0.400	
45	48	44	354	0.0138	0.354	
50	48	52	297	0.0117	0.297	
60	60	60	250	0.0098	0.250	fine sand
70	65	72	210	0.0083	0.210	
80	80	85	177	0.0070	0.177	
100	100	100	149	0.0059	0.149	
120	115	120	125	0.0049	0.125	
140	150	–	105	0.0041	0.105	
170	170	170	88	0.0035	0.088	
200	200	200	74	0.0029	0.074	portland cement
230	250	240	63	0.0024	0.063	
270	270	–	53	0.0021	0.053	
325	325	350	44	0.0017	0.044	
400	400	–	37	0.0015	0.037	plant pollen
550	–	–	25	0.0009	0.0025	
800	–	–	15	0.0006	0.015	
1200	–	–	12	0.0005	0.012	
1250	–	–	10	0.0004	0.010	
2500	–	–	10	0.0004	0.010	large bacteria
4800	–	–	2	0.0001	0.002	smoke particle