

Particle Size Conversion Chart

This chart is designed to compare millimeters, microns and inches to sieve sizes and match them to corresponding ANSI grit sizes.

Millimeters	Microns	Inches	ASTM Sieve	Tyler Sieve	*ANSI Table 2	*ANSI Table 3
5.60	5600	0.220	3 1/2	3 1/2	S-S	-
4.75	4750	0.187	4	4	4	-
4.00	4000	0.157	5	5	5	-
3.35	3350	0.132	6	6	6	-
2.80	2800	0.110	7	7	7	-
2.36	2360	0.093	8	8	8	-
2.00	2000	0.079	10	9	10	-
1.70	1700	0.067	12	10	12	-
1.40	1400	0.055	14	12	14	-
1.18	1180	0.046	16	14	16	16
1.00	1000	0.039	18	16	20	20
0.850	850	0.033	20	20	22	24
0.710	710	0.028	25	24	24	-
0.600	600	0.024	30	28	30	30
0.500	500	0.02	35	32	36	36
0.425	425	0.018	40	35	40	-
0.355	355	0.014	45	42	46	46
0.300	300	0.012	50	48	54	54
0.250	250	0.010	60	60	60	60
0.212	212	0.008	70	65	70	70
0.180	180	0.007	80	80	80	80
0.150	150	0.006	100	100	90	90
0.125	125	0.005	120	115	100	100
0.106	106	0.004	140	150	120	120
0.075	75	0.0030	200	200	150	150
0.063	63	0.0025	230	250	180	180
0.053	53	0.0021	270	270	220	220
0.045	45	0.0018	325	325	240	240

Micro Grits

Millimeters	Microns	Inches	D3% Max	D50 +/-	D94% Min	ANSI Grit Size
0.0500	50.0	0.00200	74-80	47-53	26-32	240
0.0395	39.5	0.00156	67-72	37-42	20-25	280
0.0295	29.5	0.00116	55-60	27-32	15-19	320
0.0230	23.0	0.00091	38-42	21-25	10.5-14.5	360
0.0183	18.3	0.00072	31.5-35.0	16.5-20	7.5-10.5	400
0.0139	13.9	0.00055	28.0-30.5	12.5-15.3	8.5-8.0	500
0.0106	10.6	0.00042	24.0-27.0	9.2-11.9	-	600
0.0077	7.8	0.0003	20.5-22.5	6.5-8.8	-	800
0.0058	5.8	0.00023	16-18	5.2-6.4	-	1000
0.0038	3.8	0.00015	13.5-15.5	2.8-4.8	-	1200
0.0450	45	0.0018	80	38-52	20	F
0.0275	27.5	0.0011	45-55	23-32	9-16.5	FF
0.0160	16	0.00063	35	12-20	5	FFF
0.0110	11	0.00043	35	11	4	FFFF

*A grit size is defined by the distribution of grits retained on a sieve set up that meets the requirements of ANSI Table 2 or 3. The numbers in the two sieve columns in this chart represent the midpoint sieve for the grading of the corresponding grit size. We've chosen to show the midpoint sieve since more material will be retained on this sieve than on any other in the sieve set up.