

number of particles per carat

sieve size	micron size	approximate number of particles/carat (0.2 gm)
U.S. mesh		
3 1/2	5660	0.32
4	4760	0.52
5	4000	0.88
6	3360	1.4
7	2830	2.8
8	2380	4.2
10	2000	7
12	1680	12
14	1410	20
16	1190	33
18	1000	57
20	841	97
25	707	160
30	595	282
35	500	460
40	420	770
45	354	1,334
50	297	2,080
60	250	3,240
70	210	6,140
80	177	10,400
100	149	17,140
120	125	20,920
140	105	49,400
170	88	83,400
200	74	140,000
230	63	252,000
270	53	384,000
325	44	660,000
400	37	1,130,000

micron size	number of particles per carat
	X1000
60	264
45	620
30	2,046
15	16,960
9	78,600
6	262,000
3	2,050,000
1	62,000,000