

Use the ISO Code to Represent Particle Concentrations

Example Particle Count	
Size (microns)	Count Larger Than Size per ml
4	1752
6	517
10	144
14	55
20	25
50	1.3
75	0.27
100	0.08

ISO 4406:99
 $R_4/R_6/R_{14}$

1752 particles > 4µm/ml

517 particles > 6µm/ml

55 particles > 14µm/ml

ISO 18/16/13

Number of particles per mL		
More than	Up to and including	Range Number (R)
80,000	160,000	24
40,000	80,000	23
20,000	40,000	22
10,000	20,000	21
5,000	10,000	19
1,300	2,500	18
640	1,300	17
320	640	16
160	320	15
80	160	14
40	80	13
20	40	12
10	20	11
5	10	10
2.5	5	9
1.3	2.5	8
0.64	1.3	7
0.32	0.64	6
0.16	0.32	5
0.08	0.16	4
0.04	0.08	3
0.02	0.04	2
0.01	0.02	1

ISO Code Oddities

4µm	6µm	14µm	ISO Code
01	321	41	18/16/13
2500	640	80	18/16/13
2501	641	81	19/17/14
5000	1300	160	19/17/14

one more particle
 4X as many particles

If only two range numbers are used:
 $ISO */16/13$