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PARTICLE MEASUREMENT SYSTEMS ISO 14644-2 Summary

2015 Revision

ISO 14644-2:2015 - New maximum concentration limits

Table 1. Selected airborne particulate cleanliness classes

ISO CLASSIFICATION NUMBER (2015)	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm
ISO Class 1	10					
ISO Class 2	100	24	10			
ISO Class 3	1,000	237	102	36		
ISO Class 4	10,000	2,200	1,000	350	80	
ISO Class 5	100,000	22,000	10,000	3,500	800	
ISO Class 6	1,000,000	220,000	100,000	35,000	8,000	200
ISO Class 7				350,000	80,000	2,000
ISO Class 8				3,500,000	800,000	20,000
ISO Class 9				35,000,000	8,000,000	200,000

The ISO classification is based on a new table Table 1, which uses the current and well known formula for the maximum particle concentration:

$$C_n = 10^N \times \left(\frac{K}{D}\right)^{2.08}$$

where:

- C_n is the maximum permitted concentration (particles per cubic meter) of airborne particles that are equal to and greater than the considered particle size.
- N is the ISO classification number which is not equal to a value of 0 or below (see 1).
- D is the considered particle size, in micrometers, that is not listed in Table 1.
- K is a constant, 0.1, expressed in micrometers.

The lowest concern in the life science industry is the medical office's air particle concentration ISO Class 5. Clean room (for classification purposes) when compared to the ISO 14644-2:2015 version.

Page 1 of 1

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