



International Standards for Cleanrooms, Cleanzones and

Airborne Particulate Cleanliness Classes ISO 14644-1 2015

Class	Number of Particles per Cubic Metre by Micrometre Size					
	0.1 um	0.2 um	0.3 um	0.5 um	1 um	5 um
ISO 1	10					
ISO 2	100	24				
ISO 3	1,000	237	102	35		
ISO 4	10,000	2,370	1,020	352	83	
ISO 5	100,000	23,700	10,200	3,520	832	29
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293
ISO 7				352,000	83,200	2,930
ISO 8				3,520,000	832,000	29,300
ISO 9				35,200,000	8,320,000	293,000

ISO-14644-1 Classification of Air Cleanliness

Cleanliness class designations and quantity have changed from FS209E (see Table 1). Along with the obvious change to metric measure of air volume, ISO 14644-1 adds three additional classes.

IT Cleaning Ltd Specification for Data Room class 8 clean; Air particulate levels to Class 8 or better plus all accessible surfaces free from dust.

Strategic Testing: (Table 1) Schedule of tests to demonstrate continuing compli-

Test Parameter	Class	Maximum Time Interval	Test Procedure
Particle Count Test	≤ ISO 5	6 Months	ISO 14644-1 Annex A
	> ISO 5	12 Months	
Air Pressure Difference	All Classes	12 Months	ISO 14644-1 Annex B5
Airflow	All Classes	12 Months	ISO 14644-1 Annex B4

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