

# ISO Cleanroom Classifications

ISO 14644-1 and ISO 14698

Class	maximum particles/m <sup>3</sup>						FED STD 209E
	≥0.1 μm	≥0.2 μm	≥0.3 μm	≥0.5 μm	≥1 μm	≥5 μm	equivalent
ISO 1	10	c	c	c	c	c	
ISO 2	100	24 <sup>a</sup>	10 <sup>a</sup>	c	c	c	
ISO 3	1,000	237	102	35 <sup>b</sup>	c	c	Class 1
ISO 4	10,000	2,370	1,020	352	83 <sup>b</sup>	c	Class 10
ISO 5	100,000	23,700	10,200	3,520	832	64 <sup>c</sup>	Class 100
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293	Class 1,000
ISO 7	c	c	c	352,000	83,200	2,930	Class 10,000
ISO 8	c	c	c	3,520,000	832,000	29,300	Class 100,000
ISO 9	c	c	c	35,200,000	8,320,000	293,000	Room air

# Iso Cleanroom Standards Federal Clean Room Classifications

**W. Whyte**



## **Iso Cleanroom Standards Federal Clean Room Classifications:**

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**CleanRooms**, 2008-09 A central resource of technology and methods for environments where the control of contamination is critical

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revised especially the section on risk assessment Other new subjects that have been added to the various chapters are those on clean build determination of air supply volumes for non unidirectional airflow cleanrooms RABS Restricted Access Barrier Systems contamination recovery test methods entry of large items into a cleanroom glove allergy problems and how to develop a cleanroom cleaning programme Used for in house training and a textbook in colleges this volume is for cleanroom personnel at all levels It provides novices with an introduction to the state of the art technology and professionals with an accessible reference to the current practices It is particularly useful in the semiconductor pharmaceutical biotechnology and life sciences industries William Whyte is an international authority in cleanrooms with over 45 years experience in research teaching and consulting in the electronic healthcare and pharmaceutical industries He is a member of British and International standards committees writing the International Cleanroom standards and has received numerous awards for his work in Cleanroom Technology A comment on the first edition extremely useful and helpful very well written highly organized easy to understand and follow Environmental Geology 2003 Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2003 **CleanRooms** ,2009-01 A central resource of technology and methods for environments where the control of contamination is critical Testing and Balancing HVAC Air and Water Systems, Fourth Edition Samuel C. Sugarman, 2006-02-17 This fully revised and updated edition of this classic bestselling reference provides all the information needed to evaluate and balance the air and water sides of any HVAC system The third edition adds new chapters on testing and balancing clean rooms and HVAC system commissioning The book addresses every aspect of testing adjusting and balancing including all types of instruments required and specific methods to adjust constant volume single zone dual duct induction and variable air volume systems The author provides complete details for the full scope of system components including fans pumps motors drives and electricity as well as for balancing devices and instrument usage The book also includes all necessary equations and a variety of useful conversion tables *Cleanroom Design* W. Whyte, 1999-05-04 12 The Production and Transmission of High Purity Gases for the Semiconductor Industry R Galbraith 13 Materials for Services Pipework T Hodgkiess *Ramsey/Sleeper Architectural Graphic Standards* ,2000 **The Federal Veterinarian** ,2002 **ASHRAE Handbook** ,2007 Introduction to Contamination Control and Cleanroom Technology Matts Ramstorp, 2000-12-27 Contamination control is being used by more and more industries where the highest level of cleanliness and hygiene is of vital importance This book covers the basic principles of contamination control and cleanroom technology from a holistic point of view It deals with cleanliness and hygiene and their effects on the outcome of a process reflecting the latest results from both scientific and practical points of view The following topics are covered contaminants and how they are measured cleanrooms and clean zones cleaning and decontamination cleanroom clothing the impact of people on cleanliness Intended as an introduction to the area of contamination control the text is also an excellent source of knowledge for people with both theoretical and practical experience The Swedish version has been

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