



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 9920-2 : 2019

(JACA/JSA)

**Cleanrooms and associated
controlled environments—Part 2:
Monitoring to provide evidence of
cleanroom performance related to
air cleanliness by particle
concentration**

ICS 13.040.35

Reference number : **JIS B 9920-2 : 2019 (E)**

Date of Establishment: 2019-03-20

Date of Public Notice in Official Gazette: 2019-03-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area

JIS B 9920-2:2019, First English edition published in 2020-03

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2020

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

AT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Creating, implementing and maintaining a monitoring plan	2
4.1 Principle	2
4.2 Risk assessment	3
4.3 Monitoring plan	3
4.4 Calibration	4
4.5 Review and approval	4
4.6 Response to a deviation during monitoring	4
5 Periodic classification of air cleanliness by particle concentration	4
Annex A (informative) Matters to consider when developing a monitoring plan	5
Annex B (informative) Considerations for setting alert and action levels	9
Annex JA (informative) Comparison table between JIS and corresponding International Standard	14

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Air Cleaning Association (JACA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently **JIS B 9920:2002** has been withdrawn and partially replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS B 9920 series consists of the following 2 parts under the general title *Cleanrooms and associated controlled environments*:

Part 1: Classification of air cleanliness by particle concentration

Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration

Cleanrooms and associated controlled environments—Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 14644-2:2015**, Edition 2, without any modification in technical contents of the corresponding International Standard.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard describes the monitoring to assure that a cleanroom or clean zone performs and maintains the required control of air cleanliness by particle concentration. Also, this Standard specifies minimum requirements for a monitoring plan for cleanroom or clean zone performance related to air cleanliness by particle concentration, based upon parameters that measure or affect airborne particle concentration.

This Standard does not address condition monitoring of aspects such as vibration or general maintenance of the engineering systems. Also, this Standard does not cover the monitoring of ultrafine particles (particles smaller than 0.1 μm) that are outside the specified lower threshold particle-size range (0.1 μm to 5 μm).

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 14644-2:2015 *Cleanrooms and associated controlled environments—Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 9920-1 *Cleanrooms and associated controlled environments—Part 1: Classification of air cleanliness by particle concentration*

NOTE Corresponding International Standard: ISO 14644-1:2015 *Cleanrooms and associated controlled environments—Part 1: Classification of air cleanliness by particle concentration*