

CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Occupational Health and Safety Products No. 144

Effective Date: December 1, 2022

Date: December 3, 2021

Apply Before June 1, 2022

Announcing: Publication of CSA Z94.4.1:21 Performance of Filtering Respirators

Class Nos: 7204 01 OCCUPATIONAL HEALTH & SAFETY-Non-Powered Air-Purifying Particulate Respirators
7204 02 OCCUPATIONAL HEALTH & SAFETY-Surgical Non-Powered Air-Purifying Respirators

To purchase the Standard, visit us at store.csagroup.org

Who is affected?

Manufacturers of filtering respirators.

What do you do?

1. CSA Group Service Delivery staff will contact you to address compliance with each revision as applicable to the product designs covered in your affected Certification Reports. In addition to updates to your Certificate(s) of Compliance & Report(s), testing may be required to comply with these revisions.
2. Please respond within thirty (30) days of receiving CSA Group's "Application for CSA Certification Services" and "Quotation" communication. You must respond no later than June 1, 2022 in order to guarantee the update to your certification is completed by December 1, 2022. If testing is needed, we will inform you of the samples required.

Approvals:

This is the first edition of CSA Z94.4.1, Performance of filtering respirators. This Standard was prepared by the CSA Z94.4.1 Subcommittee on the Performance of Filtering Respirators, under the jurisdiction of the Technical Committee on the Selection, Use, and Care of Respirators and the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

Background and Rationale:

See Attachment 1

Major Revisions:

Major differences in the certification and testing requirements between Class Nos. 7204 0/ 7204 02 and the new CSA Z94.4.1 are listed in Attachment 2.

For questions specific to your file or products contact your CSA Group technical staff associate.

Go to <https://www.csagroup.org/testing-certification/product-listing/> and enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.

For technical questions on this Certification Notice

Contact Sally Guo
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or e-mail sally.guo@csagroup.org

The standard edition or amendments announced in this Notice may be used for certification as of the date of issue of this Notice. The "Effective date" in this Notice is the date on which the current requirements, applicable to Certified products listed in the affected class numbers, expire and the standard edition or amendments announced in this Notice become the only requirements that may be used for certification.

In the event that currently certified products do not comply with the latest requirements outlined in this Notice after the "effective date", the certification of such models may be discontinued.



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ATTACHMENT 1

Background and Rationale

Prior to the publication of CSA Z94.4.1, CSA established the respirator certification program under Class Nos. 7204 01 and 7204 02 based on the Code of Federal Regulation 42 CFR Part 84, Approval of Respiratory Protective Devices, Subpart G (General Construction and Performance Requirements) and K (Nonpowered Particulate Respirators); and the Health Canada Interim Order Guidance for: Particulate Filtration Efficiency, Mechanical strength of head strap or head harness, Inhalation/Exhalation resistance, Exhalation valve leakage testing (only for reusable respirators with an exhalation valve), fluid resistance and flammability resistance.

CSA Z94.4.1:21 provides performance requirements for filtering respirators for use in Canada. It is intended to support a national respirator certification program for Canada.

Products currently certified under 7204 01 and 7204 02 are required to be retested to the requirements of CSA Z94.4.1:21 under new Class No. 7204 03. Previous Class Nos. 7204 01 and 7204 02 will be discontinued after December 1, 2022.

ATTACHMENT 2

Major differences in CSA certification and testing requirements currently listed under Class 7204 01 / 7204 02 and CSA Z94.4.1:21:

Clause(s)	Changes
5.6 Fit	Table 1 Fit test subject sample size by panel cell increased to 25.
5.9.1.2 Strength of connections to tight-fitting respiratory interfaces	<ul style="list-style-type: none">- Clause 5.9.1.2.1 required three samples.- The strength of connection requirements specified in Clause 5.9.1.2.3 Re-usable half-facepiece respirators and 5.9.1.2.4 Re-usable full-facepiece respirators were changed.
6.2.3 Airflow resistance suffix for CA-N95/CA-N95F particle filtering respirators	Clause 6.2.3 added a new requirement to classify the airflow resistance by adding suffix “-343Pa”, “-175Pa” or “-100Pa” for CA-N95/CA-N95F particle filtering respirators
6.3.2 Airflow Resistance	The required number of samples was increased to 10 for inhalation airflow resistance and 10 for exhalation airflow resistance.
6.3.3.2 Non-powered air-purifying respirator particle filter efficiency and loading	Clause 6.3.3.2.1 Sample allocation added a new requirement that five samples shall be tested without pre-conditioning.
6.3.4.2 Fluid resistance	<ul style="list-style-type: none">- Clause 6.3.4.2 specified that the fluid velocity of 0.635 m/s shall be used, which represents a blood pressure of 21.3 kPa (160 mm Hg), level 3 in ASTM F1862M.- Clause 6.3.4.2 specified that thirty-two samples shall be tested and three failures may be permitted.
8 Operational requirements	Clause 8 requires that the manufacturer shall provide documents to address shelf life and cleaning methods to the certification and testing body.
9 Marking	Marking requirements are different from CSA class 7204 01 and 7204 02 class description.
10 Information supplied by the manufacturer	New requirement