

BUREAU OF INDIAN STANDARDS

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DRAFT AMENDMENT NO. 1

TO

IS 10245 (Part 2) : 2023

RESPIRATORY PROTECTIVE DEVICES — SPECIFICATION

PART 2 SELF-CONTAINED OPEN CIRCUIT BREATHING APPARATUS

(Second Revision)

(ICS 13.340.30)

Occupational Safety and Health Sectional
Committee, CHD 08

Last Date for Comments: 20th July 2025

[Page 5, clause **5.16.1**, 1st line] — Delete word ‘If’.

[Page 6, clause **5.17.4**] — Substitute the following for the existing:

‘If the pressure indicator is equipped with an electrical energy source, it shall comply with the class Ex ia IIC T4 in accordance with IS/IEC 60079-11, or for mining industry, with class EX ia I in accordance with IS/IEC 60079-0. Testing shall be done in accordance with IS/IEC 60079-11 and IS/IEC 60079-0 at normal conditions as well as at 30 °C and 60 °C. If the apparatus is designed for temperatures beyond -30°C to 60°C, testing shall be conducted in accordance with IS/IEC 60079-11 and IS/IEC 60079-0 under normal conditions, as well as at the corresponding maximum and minimum temperatures, with a tolerance of ± 3 °C. The measurement accuracy shall be maintained when testing the device on electromagnetic compatibility in accordance with IS 14700 (Part 6/Sec 2).’

[Page 6, clause **5.18.3**] — Substitute the following for the existing:

‘Warning devices which operate electrically shall comply with the class Ex ia IIC T4 in accordance with IS/IEC 60079-11, or for mining industry, with class Ex ia I in accordance with IS/IEC 60079-0. Testing shall be done in accordance with IS/IEC 60079-11 and IS/IEC 60079-0 at normal conditions as well as at -30 °C and 60 °C. If the apparatus is specifically designed for temperatures beyond -30°C to 60°C, testing shall be conducted in accordance with IS/IEC 60079-11 and IS/IEC 60079-0 under normal conditions, as well as at the specified maximum and minimum temperatures, with a tolerance of ± 3 °C. The measurement accuracy shall be maintained when testing the device on electromagnetic compatibility in accordance with IS 14700 (Part 6/Sec 2).’

[Page 7, *clause 6.1*] — Add the following at the end of clause 6.1:

‘If the apparatus is designed for temperatures beyond -30 °C to 60 °C, the corresponding maximum and minimum temperatures shall be used for conditioning, with a tolerance of $\pm 3^{\circ}\text{C}$.’

[Page 11, *clause 6.6.1.1*] — Add the following at the end of first para:

‘If the apparatus is designed for temperatures beyond -30 °C to 60 °C, the corresponding minimum claimed operating temperature shall be used instead of $(-30 \pm 3)^{\circ}\text{C}$, with a tolerance of $\pm 3^{\circ}\text{C}$.’

[Page 11, *clause 6.6.1.2*] — Add the following at the end of first para:

‘If the apparatus is designed for temperatures beyond -30 °C to 60 °C, the corresponding maximum claimed operating temperature shall be used instead of $(60 \pm 3)^{\circ}\text{C}$, with a tolerance of $\pm 3^{\circ}\text{C}$.’

[Page 11, *clause 6.6.2.1*] — Add the following at the end of first para:

‘If the apparatus is designed for temperatures beyond -30°C to 60°C, the corresponding minimum claimed operating temperature shall be used instead of $(-30 \pm 3)^{\circ}\text{C}$ and $(-15 \pm 3)^{\circ}\text{C}$, with a tolerance of $\pm 3^{\circ}\text{C}$.’

[Page 12, *clause 6.8*] — Delete ‘at temperatures between 0 °C and 10 °C’