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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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Ambient air quality standards

环境空气质量标准

[Including Amendment List 2018XG1]

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**General Administration of Quality Supervision, Inspection and
Quarantine of PRC.**

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Ambient air quality standards

1 Scope

This standard specifies the classification of ambient air functional zones, standard grading, pollutant items, average time and concentration limits, monitoring methods, validity of data statistics, implementation and supervision.

This standard applies to the assessment and management of ambient air quality.

2 Normative references

This standard refers to the following documents or their terms. For the undated documents, only the latest version is applicable to this standard.

GB 8971 Air quality - Determination of benzo(α) pyrene in flying dust - Acetylated paper chromatography fluorescence spectrophotometric method

GB 9801 Air quality - Determination of carbon monoxide - Non-dispersive infrared spectrometry

GB/T 15264 Ambient air - Determination of lead - Flame atomic absorption spectrophotometric method

GB/T 15432 Ambient air - Determination of total suspended particulates - Gravimetric method

GB/T 15439 Air quality - Determination of benzo[a]pyrene in ambient air - High performance liquid chromatography

HJ 479 Ambient air - Determination of nitrogen oxides-N-(1-naphthyl) ethylene diamine dihydrochloride spectrophotometric method

HJ 482 Ambient air - Determination of sulfur dioxide - Formaldehyde absorbing-pararosaniline spectrophotometry

HJ 483 Ambient air - Determination of sulfur dioxide in ambient air - Tetrachloromercurate (TCM)-pararosaniline method

HJ 504 Ambient air - Determination of ozone - Indigo disulphonate spectrophotometry

HJ 539 Ambient air - Determination of lead - Graphite furnace atomic

Particulate matter (particle size less than or equal to 2.5 μm) ($\text{PM}_{2.5}$)

Refers to particulate matter in ambient air which has an aerodynamic equivalent diameter less than or equal to 2.5 μm , also known as respirable particulate matter.

3.5

Lead

Refers to lead and its compounds as presented in total suspended particle.

3.6

Benzo[a]pyrene (BaP)

Refers to benzo[a]pyrene as presented in particulate matter (particle size less than or equal to 10 μm).

3.7

Fluoride

Refers to inorganic fluorides as presented in the form of gaseous particulate forms.

3.8

1-hour average

Refers to the arithmetic mean of pollutant concentration per any 1-hour.

3.9

8-hour average

Refers to the arithmetic mean of the average concentration for 8 consecutive hours, also known as the 8-hour moving average.

3.10

24-hour average

Refers to the arithmetic mean of the average concentration for 24-hour of a natural day, also known as the daily average.

3.11

Monthly average

5	Particulate matter (PM ₁₀)	Determination of atmospheric articles PM ₁₀ and PM _{2.5} in ambient air by gravimetric method	HJ 618	Micro-oscillation balance method, β -ray method
6	Particulate matter (PM _{2.5})	Determination of atmospheric articles PM ₁₀ and PM _{2.5} in ambient air by gravimetric method	HJ 618	Micro-oscillation balance method, β -ray method
7	Total suspended particle (TSP)	Ambient air - Determination of total suspended particulates -Gravimetric method	GB/T 15432	-
8	Nitrogen oxides (NO _x)	Ambient air - Determination of nitrogen oxides-N-(1-naphthyl) ethylene diamine dihydrochloride spectrophotometric method	HJ 479	Chemiluminescence method, differential absorption spectroscopy
9	Lead (Pb)	Ambient air - Determination of lead - Graphite furnace atomic absorption spectrometry (provisional)	HJ 539	-
		Ambient air - Determination of lead - Flame atomic absorption spectrophotometric method	GB/T 15264	-
10	Benzo[a]pyrene (BaP)	Air quality - Determination of benzo(α) pyrene in flying dust - Acetylated paper chromatography fluorescence spectrophotometric method	GB 8971	-
		Air quality - Determination of benzo[a]pyrene in ambient air -High performance liquid chromatography	GB/T 15439	-

6 Validity of data statistics

6.1 It shall take measures to ensure the accuracy, continuity and completeness of the monitoring data, to ensure a comprehensive and objective reflection of the monitoring results. All valid data shall be subjected to statistics and evaluations. It shall neither selectively discard the adverse data nor artificially intervene the monitoring and evaluation results.

6.2 When using the automatic monitoring equipment for monitoring, the monitoring equipment shall be operated continuously for 365 days (366 days in leap-year). When the continuous monitoring data cannot be obtained due to calibration of monitoring instrument, power outages, equipment failures, or other irresistible factors, it shall take effective measures to recover the data in time.

6.3 The determination and processing of abnormal values shall comply with the provisions of HJ 630. For the missing and deleted data during the monitoring

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