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JIS K 1101 : 2006

(JIGA/JSA)

Oxygen

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Industrial Gases Association (JIGA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 1101** : 1982 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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

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Oxygen

O₂ FW: 32.00

1 Scope This Japanese Industrial Standard specifies the industrial oxygen (liquefied or compressed) filled in a high pressure gas vessel (hereafter referred to as “oxygen”).

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 7983 *Continuous analyzers for oxygen in flue gas*

JIS H 3260 *Copper and copper alloy wires*

JIS K 0050 *General rules for chemical analysis*

JIS K 0225 *Testing methods for determination of trace components in diluent gas and zero gas*

JIS K 0512 *Hydrogen*

JIS K 8085 *Ammonia solution*

JIS K 8116 *Ammonium chloride*

JIS K 8613 *Ammonium carbonate*

JIS K 8660 *Copper*

3 Quality The oxygen shall be tested in accordance with clause 4, and the results shall prove that it meets the requirements specified in table 1.

Table 1 Quality of oxygen

Item	Quality	Applicable subclause
Purity % (volume)	99.5 min.	4.3
Dew point °C	-55 max.	4.4

Remarks : The -55 °C in dew point corresponds to the 20.7 ppm (volume) in moisture content.

4 Test methods

4.1 General items The general items governing the tests are as specified in **JIS K 0050**.

4.2 Preparation of sample The oxygen regulated to the atmospheric pressure suitable for the test by the methods specified below shall be used as the sample.

a) **Liquefied oxygen** Completely evaporate it by drawing it through an evaporator or the like, and bring it to room temperature.