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**Polyethylene pipes for the supply of
gaseous fuels**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been 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 The Japan Gas Association (JGA)/The Japan Plastics Industry Federation (JPIF)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied *mutatis mutandis* pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 6774** : 2013), which has been technically revised.

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Polyethylene pipes for the supply of gaseous fuels

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 4437-1** : 2014, Edition 1, and **ISO 4437-2** : 2014, Edition 1, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JF.

1 Scope

This Standard specifies the requirements for buried polyethylene pipes (hereafter referred to as pipes) used for the supply of town gas and liquefied petroleum gas.

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

ISO 4437-1 : 2014 *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 1 : General*

ISO 4437-2 : 2014 *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 2 : Pipes* (Overall evaluation : 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**.

The maximum operating pressure (MOP) of the polyethylene pipe-fittings for the supply of gaseous fuels conforming to **JIS K 6775-1**, **JIS K 6775-2** and **JIS K 6775-3** and their joints, and joints with components of polyethylene or other materials is based on the design stress determined from the compound minimum required strength (MRS) divided by *C* factor [overall service (design) coefficient], and taking into account rapid crack propagation (RCP) requirements.

2 Normative references

Part or all of the provisions of the following standards, 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 7502 *Micrometers*

JIS B 7503 *Mechanical dial gauges*

JIS B 7507 *Vernier, dial and digital callipers*

JIS K 2231 *Liquid paraffin*