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**Polyethylene coated steel pipes—  
Part 1: External 3 layer extruded  
polyethylene coated steel pipes**

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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 Iron and Steel Federation (JISF) 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 G 3477-1** :2016 is replaced with this Standard.

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**JIS K 3477** series consists of the following 3 parts under the general title “*Polyethylene coated steel pipes*”:

*JIS G 3477-1 Part 1: External 3 layer extruded polyethylene coated steel pipes*

*JIS G 3477-2 Part 2: External extruded polyethylene coated steel pipes*

*JIS G 3477-3 Part 3: External polyethylene powder coated steel pipes*

# Polyethylene coated steel pipes— Part 1: External 3 layer extruded polyethylene coated steel pipes

## 1 Scope

This Japanese Industrial Standard specifies the 3 layer external extruded polyethylene coated steel pipes (hereafter referred to as coated steel pipes) mainly used for the straight pipes of pipelines for underground<sup>1)</sup> services of transporting gas, oil, water, etc. This Standard is applicable to pipes of outside diameter 76.3 mm (nominal diameter 65A or 2<sup>1</sup>/<sub>2</sub>B) to 1 625.6 mm (nominal diameter 1 600A or 64B). The coated steel pipes are usually used at temperatures in the range of -40 °C to +60 °C.

Note <sup>1)</sup> The underground referred to above includes the bottom of river, the bottom of sea, etc. Coated steel pipes using black pigments may be used for above-ground piping.

## 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 G 0404 *Steel and steel products—General technical delivery requirements*

JIS G 0415 *Steel and steel products—Inspection documents*

JIS G 3452 *Carbon steel pipes for ordinary piping*

JIS G 3454 *Carbon steel pipes for pressure service*

JIS G 3455 *Carbon steel pipes for high pressure service*

JIS G 3457 *Arc welded carbon steel pipes*

JIS G 3460 *Steel pipes for low temperature service*

JIS K 0068 *Test method for water content of chemical products*

JIS K 5500 *Glossary of terms for coating materials*

JIS K 5600-2-4 *Testing methods for paints—Part 2: Characteristics and stability of paints—Section 4: Density (Pyknometer method)*

JIS K 5700-9-1 *Testing methods for paint—Part 9: Coating powders—Section 1: Determination of gel time of thermosetting coating powders at a given temperature*

JIS K 6761 *Polyethylene pipes for general purposes*

JIS K 6900 *Plastics—Vocabulary*

JIS K 6922-2 *Plastics—Polyethylene (PE) moulding and extrusion materials—Part 2: Preparation of test specimens and determination of properties*

JIS K 7112 *Plastics—Methods of determining the density and relative density of non-cellular plastics*