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

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Contents

	Page
1	Scope 1
2	Normative references 1
3	Terms and definitions 2
4	Symbols of grade 3
5	Materials 4
5.1	Original pipes 4
5.2	Coating materials 4
6	Manufacturing method 4
6.1	Pretreatment 4
6.2	Coating method 5
6.3	Inner coating 5
7	Coated steel pipes 5
7.1	Coating performance 5
7.2	Coating thickness 6
7.3	Position and shape of coating at pipe end 7
7.4	Appearance 7
8	Tests of coated steel pipes 7
8.1	Type of test 7
8.2	Coating thickness test 7
8.3	Pinhole test 8
8.4	Adhesive property test 8
8.5	Peel strength test 8
8.6	Impact test 8
8.7	Indentation depth test 8
8.8	Test of nominal tensile strain at break 8
8.9	Bend test 8
8.10	Cathodic disbondment test 9
8.11	Hot water immersion test 9
9	Inspection 9
10	Marking 9
11	Information to be supplied by the purchaser 9
12	Report 10
Annex A (normative)	Polyethylene coating materials 11
Annex B (normative)	Adhesive polyethylene coating materials 14

Annex C (normative)	Epoxy resin primer coating materials	16
Annex D (informative)	Control items of manufacturing process	18
Annex E (normative)	Peel strength test method	19
Annex F (normative)	Impact test method	20
Annex G (normative)	Indentation depth test method	21
Annex H (normative)	Bend test method	22
Annex I (normative)	Cathodic disbondment test method	24
Annex J (normative)	Hot water immersion test method	26

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS G 3477-1** : 2018), which has been technically revised.

However, **JIS G 3447-1** : 2018 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 December 2023.

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

Part 1 : External 3 layer extruded polyethylene coated steel pipes

Part 2 : External extruded polyethylene coated steel pipes

Part 3 : External polyethylene powder coated steel pipes

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

1 Scope

This Japanese Industrial Standard specifies requirements for the external 3 layer extruded polyethylene coated steel pipes (hereafter referred to as coated steel pipes) mainly used for the straight pipes of pipelines for underground services (including the bottom of river and the bottom of sea) of transporting gas, oil, water, etc.

NOTE 1 Coated steel pipes using black pigments may be used for above-ground piping.

NOTE 2 This Standard is applicable to pipes of outside diameter 76.3 mm (nominal diameter 65A or 2¹/₂B) to 1 625.6 mm (nominal diameter 1 600A or 64B) (see Table 2).

NOTE 3 The coated steel pipes are usually used at temperatures in the range of -40 °C to +60 °C.

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 G 0202 *Glossary of terms used in iron and steel (Testing)*

JIS G 0203 *Glossary of terms used in iron and steel (Products and quality)*

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 methods 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 5600-9-1 *Testing methods for paint — Part 9 : Coating powders — Section 1 : Determination of gel time of thermosetting coating powders at*