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# (JISF) Steel tubes for fired heater

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#### 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 3467** : 2013), which has been technically revised.

However, **JIS G 3467** : 2013 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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# Steel tubes for fired heater

#### 1 Scope

This Japanese Industrial Standard specifies the carbon steel tubes, alloy steel tubes, austenitic stainless steel tubes and nickel-chromium-iron alloy tubes (hereafter referred to as tubes), for heating the process fluids in the fired heaters mainly used in petroleum refinery, petrochemical industry, etc.

NOTE This Standard normally applies to tubes of outside diameter 60.5 mm (nominal diameter 50A or 2B) to 267.4 mm (nominal diameter 250A or 10B) (Table 7 and Table 8).

#### 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 0201 Glossary of terms used in iron and steel (Heat treatment)
- 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 0320 Standard test method for heat analysis of steel products
- JIS G 0321 Product analysis and its tolerance for wrought steel
- JIS G 0404 Steel and steel products General technical delivery requirements
- JIS G 0415 Steel and steel products Inspection documents
- JIS G 0551 Steels Micrographic determination of the apparent grain size
- JIS G 0567 Method of elevated temperature tensile test for steels and heat-resisting alloys
- JIS G 0571 Method of oxalic acid etching test for stainless steels
- JIS G 0572 Method of ferric sulfate-sulfuric acid test for stainless steel
- JIS G 0573 Method of 65 per cent nitric acid test for stainless steels
- JIS G 0575 Method of copper sulfate-sulfuric acid test for stainless steels
- JIS G 0582 Automated ultrasonic examination of steel pipes and tubes
- JIS G 0583 Automated eddy current examination of steel pipes and tubes
- JIS Z 2241 Metallic materials Tensile testing Method of test at room temperature
- JIS Z 8401 Rounding of numbers

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