

JIS

JAPANESE INDUSTRIAL STANDARD

Eddy current inspection of titanium pipes and tubes

JIS H 0515—1992

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JAPANESE INDUSTRIAL STANDARD

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Eddy current inspection of titanium pipes and tubes H 0515-1992

1. Scope This Japanese Industrial Standard specifies the eddy current inspection, hereafter referred to as the "inspection", for detecting flaws of titanium seamless tubes and welded tubes, hereafter referred to as the "tubes".

Remarks: The following standards are cited in this Standard.

JIS Z 2300-Glossary of terms used in nondestructive testing

JIS Z 2315-Test methods for performance characteristics of eddy current flaw detecting system

2. Definitions For the main terms used in this Standard the definitions in JIS Z 2300 apply, and the rest of the terms shall be as follows.

- (1) straightening mark A circumferentially spiral micro-dimensional variation which is generated with a straightening roll for bend of a tube.
- (2) ring mark A circumferential like micro-dimensional variation, which is generated by the stop of a roll when materials are cold rolled.
- (3) rough surface Partial variation in roughness on the surface of a tube, which is the residue of a surface finish trace.

3. General items

3.1 Applicable dimension range The range of the applicable dimensions of a tube shall be 10 to 150 mm outside diameter and 0.3 to 10 mm thickness.

3.2 Summary of inspection method The inspection shall be carried out by using an encircling coil (hereafter, referred to as the "test coil").

3.3 Engineer for inspection The engineer for inspection shall have the knowledge and technical skill which are necessary for inspection.

4. Apparatus for flaw detection

4.1 Construction The apparatus for flaw detection shall be composed of a flaw detector, a test coil, a tube feed device (including a coil holding table, hereafter the same), and an automatic alarm system or a recorder.

Related standards:

JIS H 4630-Titanium pipes and tubes for ordinary piping

JIS H 4631-Titanium tubes for heat exchangers