

JIS

JAPANESE INDUSTRIAL STANDARD

**Method of nondestructive
examination for
weld of pipeline**

JIS Z 3050—1995

Translated and Published

by

Japanese Standards Association

**In the event of any doubt arising,
the original Standard in Japanese is to be final authority.**

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Method of nondestructive examination
for weld of pipeline

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1. Scope This Japanese Industrial Standard specifies the method of non-destructive examination for circular butt weld of steel pipeline for the transport of petroleum, gas, etc., 100 mm to 2000 (excl.) mm in outside diameter and 6 mm to 40 (incl.) mm in wall thickness under working pressure of 0.98 MPa or more.

However, this Standard is applicable for liquefied gases regardless of the pressure with this respect, the steel pipe shall have the minimum tensile strength of 340 N/mm² to 570 N/mm² (incl.) in accordance with the Japanese Industrial Standard or equivalent one thereto, and the weld shall be the arc-welded one using a welding method qualified by the welding procedure test.

Furthermore, the criteria for the test results are specified in Annex.

Remarks: The standards cited in this Standard are as follows:

- JIS G 0565 Method for magnetic particle testing of ferromagnetic materials and classification of magnetic particle indication
- JIS K 7652 Photography – Density measurements – Parts 2: Geometric conditions for transmission density [ISO 5-2: 1991]
- JIS K 7653 Photography – Density measurements – Part 3: Spectral conditions [ISO 5-3: 1984]
- JIS Z 2300 Glossary of terms used in nondestructive testing
- JIS Z 2306 Radiographic image quality indicators for non-destructive testing
- JIS Z 2343 Method for liquid penetrant testing and classification of the indication
- JIS Z 2345 Standard test blocks for ultrasonic testing
- JIS Z 3060 Method for ultrasonic examination for welds of ferritic steel
- JIS Z 3104 Methods of radiographic examination for welded joints in steel
- JIS Z 4560 Industrial γ -ray apparatus for radiography
- JIS Z 4561 Viewing illuminators for industrial radiograph
- JIS Z 4606 Industrial X-ray apparatus for radiographic testing

2. Definitions For the main terms used in this Standard, the definitions in JIS Z 2300 apply.