

JIS

JAPANESE INDUSTRIAL STANDARD

**Testing method for
radiography of carbon fibre
reinforced plastic panels**

JIS K 7091—1996

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**In the event of any doubt arising,
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Errata will be provided upon request, please contact:

**Business Department,
Japanese Standards Association**
4-1-24, Akasaka, Minato-ku,
Tokyo, JAPAN 107
TEL. 03-3583-8002
FAX. 03-3583-0462

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Testing method for radiography of
carbon fibre reinforced plastic panels

K 7091-1996

1. Scope This Japanese Industrial Standard specifies the testing method by radiography to detect such as void or alien matters, which has been included in carbon fibre reinforced plastic (hereafter referred to as "CFRP") panels, by means of direct photographing on X-ray film for industrial use by using soft X-ray.

Remarks 1. This Standard specifies plate-type CFRP sample whose thickness is 20 mm or less.

2. The testing person who carries out the test using this Standard shall bear the required license or have the sufficient skill and knowledge corresponding to the license.

3. When radiography is carried out, "Industrial Safety and Health Law" shall be observed, and the prevention of radiation exposure shall be sufficiently taken care of.

4. The standards cited in this Standard are listed as follows.

JIS H 4170 High purity aluminium foils

JIS K 6900 Plastics – Vocabulary

JIS K 7072 Preparation of carbon fibre reinforced plastic panels for test purpose

JIS Z 2300 Glossary of terms used in nondestructive testing

JIS Z 4561 Viewing illuminators for industrial radiograph

2. Definitions The definitions of main terms used in this Standard shall follow JIS K 6900 and JIS Z 2300.

3. Testing apparatus and accessory

3.1 Testing apparatus The testing apparatus shall be a soft X-ray apparatus. The value of inherent filtration of the soft X-ray apparatus shall be beryllium 1.0 mm or less.

3.2 X-ray film and intensifying screen X-ray film and intensifying screen shall be as follows.

(1) X-ray film shall be the one for industrial use of non-screen and ultrafine particle type.

(2) Don't use intensifying screen.

3.3 Cassette The cassette for X-ray film shall be for soft X-ray. The material of the side of a cassette, through which X-ray passes, shall not absorb X-ray as far as possible, and aluminum or polyvinyl chloride absorbing abundantly X-ray shall not be used.