
**Non-destructive testing of welds —
Visual testing of fusion-welded joints**

*Contrôle non destructif des assemblages soudés — Contrôle visuel des
assemblages soudés par fusion*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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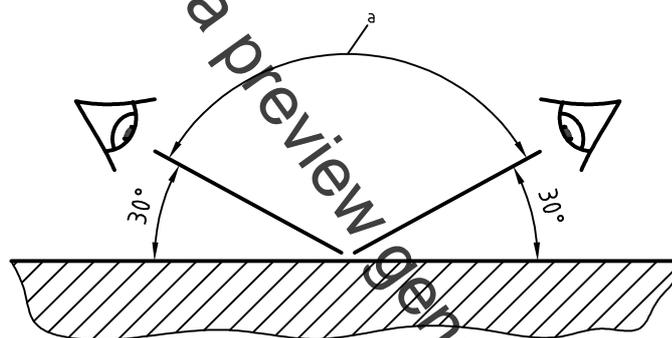
1 Scope

This International Standard covers the visual testing of fusion welds in metallic materials. It may also be applied to visual testing of the joint prior to welding.

2 Test conditions and equipment

The illuminance at the surface shall be a minimum of 350 lx. However, 500 lx is recommended.

For direct inspection, the access shall be sufficient to place the eye within 600 mm of the surface to be examined and at an angle not less than 30° (see Figure 1).



^a Range

Figure 1 — Access for testing

Remote inspection using mirrors, boroscopes, fibre optic cables or cameras shall be considered when the access for testing in accordance with Figure 1 is not possible or when specified by an application standard.

An additional light source can be used to increase the contrast and relief between imperfections and the background.

Where the result of visual testing is inconclusive, the visual test should be supplemented by other non-destructive testing methods for surface inspections.

Examples of equipment used for visual testing are given in Annex A.

3 Personnel qualification

Visual testing of welds and the evaluation of results for final acceptance shall be performed by qualified and capable personnel. It is recommended that personnel be qualified in accordance with ISO 9712 or an equivalent standard at an appropriate level in the relevant industry sector.