

This is a preview of "ISO 7799:1985". [Click here to purchase the full version from the ANSI store.](#)

International Standard 7799

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Metallic materials — Sheet and strip 3 mm thick or less — Reverse bend test

Matériaux métalliques — Tôles et feuillards d'épaisseur inférieure ou égale à 3 mm — Essai de pliage alterné

First edition — 1985-10-01

UDC 669-415 : 620.177.6

Ref. No. ISO 7799-1985 (E)

Descriptors : metals, sheet metal, strips, tests, mechanical tests, reverse bend tests, test equipment.

This is a preview of "ISO 7799:1985". [Click here to purchase the full version from the ANSI store.](#)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7799 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*.

It cancels and replaces ISO Recommendation R 88-1959, of which it constitutes a technical revision.

Metallic materials — Sheet and strip 3 mm thick or less — Reverse bend test

1 Scope and field of application

This International Standard specifies the method for determining the ability of sheet and strip from metallic materials 3 mm thick or less to undergo plastic deformation in reverse bending.

This method can be applied to aluminium and its alloys only after previous agreement.

2 Principle

The reverse bend test consists of repeated bending through 90°, in opposite directions, of a rectangular test piece held at one end, each bend being over a cylindrical support of specified radius.

3 Symbols and designations

Symbols and designations used in the reverse bend test are shown in figure 1 and specified in table 1.

Table 1

Symbol	Designation	Unit
a	Thickness of test piece	mm
r	Radius of cylindrical supports	mm
h	Distance from top tangential plane of cylindrical supports to the bottom face of guide	mm
y	Distance from a plane defined by the axes of cylindrical supports and the nearest point of contact with the test piece	mm
N_b	Number of reverse bends	—

4 Testing equipment

4.1 General

The testing machine shall be constructed so as to conform with the principles indicated in figure 1.

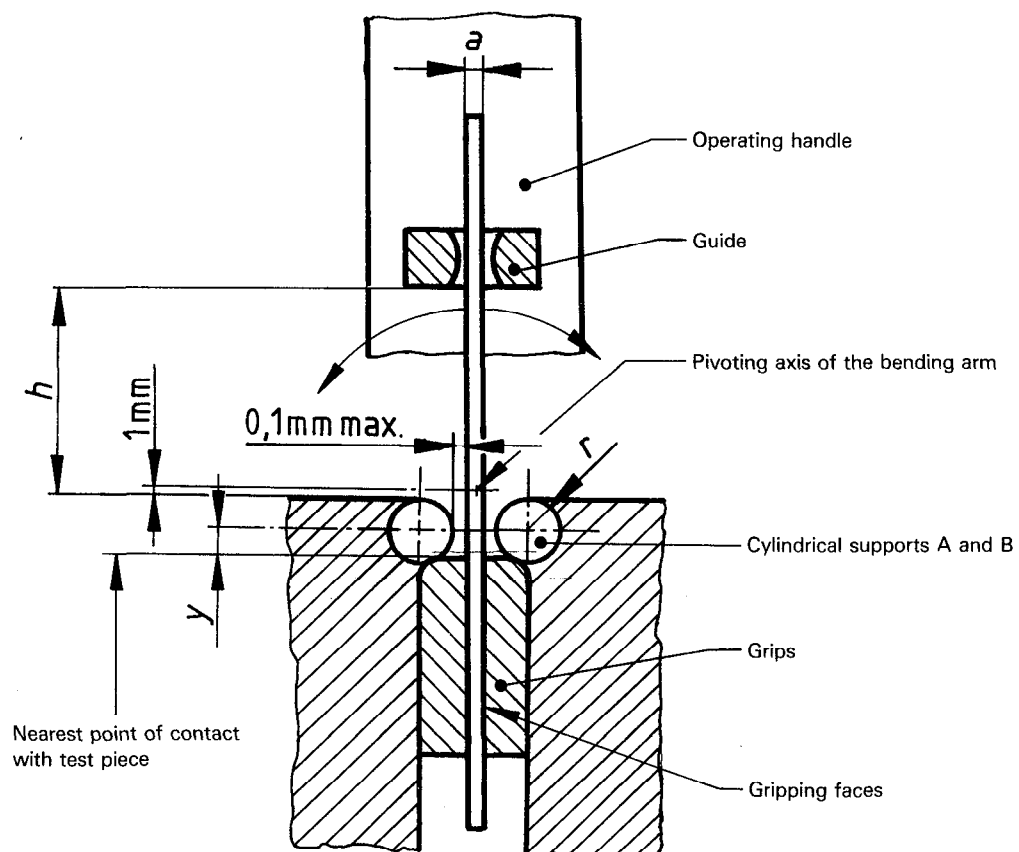


Figure 1