

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 398

BEND TEST FOR COPPER AND COPPER ALLOYS

1st EDITION

November 1964

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BRIEF HISTORY

The ISO Recommendation R 398, *Bend Test for Copper and Copper Alloys*, was drawn up by Technical Committee ISO/TC 26, *Copper and Copper Alloys*, the Secretariat of which is held by the Deutscher Normenausschuss (DNA).

Work on this question by the Technical Committee began in 1958 and led, in 1961, to the adoption of a Draft ISO Recommendation.

In February 1962, this Draft ISO Recommendation (No. 496) was circulated to all the ISO Member Bodies for enquiry. It was approved by the following Member Bodies:

Australia	India	Sweden
Bulgaria	Italy	Switzerland
Burma	Japan	Turkey
Canada	Netherlands	United Kingdom
Denmark	Poland	U.S.S.R.
Finland	Portugal	Yugoslavia
France	Republic of South Africa	
Germany	Spain	

Two Member Bodies opposed the approval of the Draft:

Belgium, U.S.A.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in November 1964, to accept it as an ISO RECOMMENDATION.

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BEND TEST FOR COPPER AND COPPER ALLOYS

1. SCOPE

This ISO Recommendation relates to the bend testing of wrought products of copper and copper alloys excluding wires and tubes.

2. PRINCIPLE OF TEST

A straight solid prismatic or round section test piece is subjected to plastic deformation by bending without reversing the direction of flexure during the test. The bending is carried out until one leg of the test piece makes, under load, a specified angle α with the extension of the other (see Fig. 2, page 6). The axes of the two legs of the test piece remain in a plane perpendicular to the axis of bending.

Unless otherwise specified, the test is carried out at ambient temperature.

3. SYMBOLS AND DESIGNATIONS

Number	Symbol	Designation
1	a	Thickness or diameter of test piece
2	b	Width of test piece
3	—	Distance between support rollers (Figs. 1 and 2) or, for a V-block, the opening of the vee (Fig. 3)
4	α	Angle of bend
5	R	Radius of support rollers
6	D	Diameter of mandrel
7	—	Radius of curvature of forming tool
8	r	Internal radius of bend of the test piece after bending

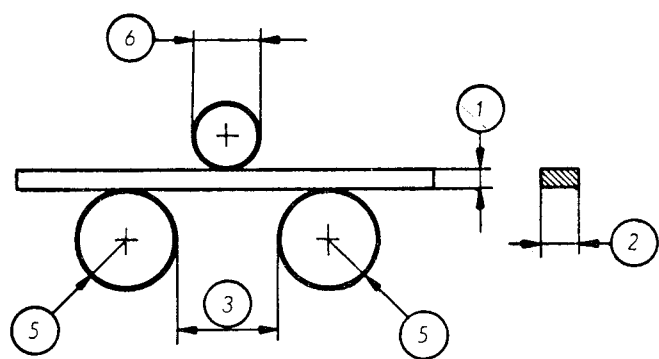


FIG. 1

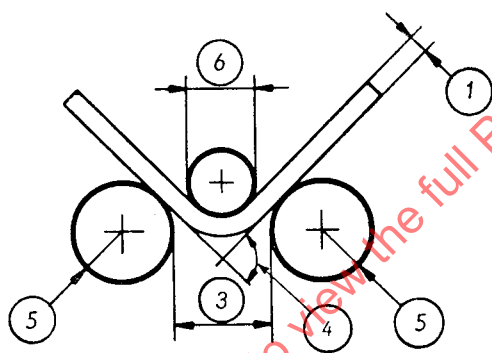


FIG. 2

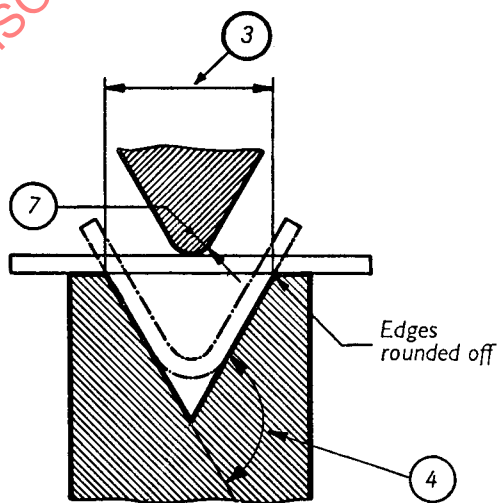


FIG. 3