

ISO

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COPPER AND COPPER ALLOY TUBES

OF CIRCULAR SECTION

FLATTENING TEST

ISO 8492

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FLATTENING TEST

1. SCOPE

This ISO Recommendation describes a flattening test for copper and copper alloy tubes having an external diameter less than or equal to 100 mm (4 in), and a thickness less than or equal to 15 % of the external diameter. However, individual specifications for the material may specify the maximum diameter and thickness of tube to which this test is to be applied in particular circumstances.

2. PRINCIPLE

- 2.1 The test consists of flattening between platens a specified length of tube in a direction perpendicular to the longitudinal axis of the tube until the distance between the platens, measured under load, reaches the value fixed by the relevant product specification.
- 2.2 When the test is carried out in such a way that, after the test, the internal surfaces are in contact over more than half the internal surface area, the test is called "close flattened".
- 2.3 The test should be carried out at ambient temperature unless otherwise specified.

3. SYMBOLS AND DESIGNATIONS

Number	Symbol	Designation
1	D	External diameter of test piece
2	a	Thickness of wall of test piece
3	d	Internal diameter of test piece
4	L	Length of test piece
5	z	Distance between platens measured under load