

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 377

SELECTION AND PREPARATION OF SAMPLES AND TEST PIECES FOR WROUGHT STEEL

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BRIEF HISTORY

The ISO Recommendation R 377, *Selection and Preparation of Samples and Test Pieces for Wrought Steel*, was drawn up by Technical Committee ISO/TC 17, *Steel*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question by the Technical Committee began in 1953 and led, in 1962, to the adoption of a Draft ISO Recommendation.

In October 1962, this Draft ISO Recommendation (No. 527) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Australia	Germany	Portugal
Austria	Hungary	Romania
Belgium	Iran	Spain
Burma	Ireland	Sweden
Canada	India	Switzerland
Chili	Italy	Turkey
Czechoslovakia	Japan	United Kingdom
Denmark	Netherlands	U.S.A.
Egypt	New Zealand	U.S.S.R.
Finland	Norway	Yugoslavia
France	Poland	

No Member Body opposed the approval of the Draft.

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

SELECTION AND PREPARATION OF SAMPLES AND TEST PIECES FOR WROUGHT STEEL

1. SCOPE

The object of this ISO Recommendation is to define the operations by which test pieces for mechanical tests and samples for chemical analysis are obtained from a wrought steel product.

The product from which test pieces for mechanical tests are selected can be either one of the products presented for acceptance, or a sample-product, depending upon the requirements of the order.

2. SELECTION AND PREPARATION OF SAMPLES AND TEST PIECES FOR MECHANICAL TESTS

2.1 General

The requirements specified vary according to whether the tests are used to determine the characteristics:

- of the condition at the time of delivery, or
- of some other condition, different from the delivery condition.

The tests should be carried out in accordance with the test methods specified in the material specification.

2.2 Definitions

- 2.2.1** *Sample.* Material taken from a product for the purpose of producing one or more test pieces.
In certain cases, the sample may be the product itself.
- 2.2.2** *Test piece.* Part of the sample, with specified dimensions, unmachined or machined, and suitably prepared for the test.
In certain cases the test piece may be the sample itself.
- 2.2.3** *Test.* Sequence of operations to which the test piece is subjected to determine whether the material meets the specified requirements.
- 2.2.4** *Selection of the sample.* Sequence of operations by which a sufficient quantity of material is obtained for the provision of the test pieces necessary for the specified tests.
- 2.2.5** *Preparation of the sample.* Sequence of operations (cf. 2.2.4.3) which provides a sample in the condition required for the preparation of the test piece.
- 2.2.6** *Preparation of the test piece.* Sequence of operations on the test sample (cf. 2.2.4 and 2.2.5) by which a test piece is prepared for testing.