

Revised

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 426

CLASSIFICATION
OF BRASSES, LEADED BRASSES, SPECIAL BRASSES
AND HIGH TENSILE BRASSES

1st EDITION

March 1965

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BRIEF HISTORY

The ISO Recommendation R 426, *Classification of Brasses, Leaded Brasses, Special Brasses and High Tensile Brasses*, 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 1960 and led, in 1962, to the adoption of a Draft ISO Recommendation.

In December 1962, this Draft ISO Recommendation (No. 543) 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	Romania
Belgium	Greece	Spain
Brazil	India	Sweden
Canada	Iran	Switzerland
Chile	Italy	Turkey
Denmark	Japan	United Kingdom
Finland	Netherlands	Yugoslavia
France	Poland	

One Member Body opposed the approval of the Draft:

U.S.S.R.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in March 1965, to accept it as an ISO RECOMMENDATION.

CLASSIFICATION OF BRASSES, LEADED BRASSES, SPECIAL BRASSES AND HIGH TENSILE BRASSES

1. SCOPE

This ISO Recommendation relates to the chemical composition and forms of semi-manufactured products of the following wrought copper alloys:

Brasses,
Leaded brasses,
Special brasses,
High tensile brasses,

currently available in commercial quantities.

It is intended as a classification and not as a specification for the various types. For the classification principles, see Appendix.

2. GENERAL

The chemical compositions given below show only the main constituent elements and usual impurities. It is the responsibility of the supplier to ensure that any element not specifically limited by this ISO Recommendation is not present in an amount such as is generally accepted as having an adverse effect on the product. If the purchaser's requirements necessitate limits for any element not specified, these should be agreed upon between supplier and purchaser.

3. CHEMICAL COMPOSITION (PER CENT)

3.1 Brasses

TABLE 1

Designation	Cu	Zn	Maximum impurities			Average density* kg/dm³
			Fe	Pb	Total	
Cu Zn10	89.0 to 91.0	The remainder	0.1	0.1	0.5	8.80
Cu Zn15	84.0 to 86.0		0.1	0.1	0.5	8.75
Cu Zn20	78.5 to 81.5		0.1	0.1	0.5	8.65
Cu Zn30	68.5 to 71.5		0.1	0.1	0.4	8.55
Cu Zn33	65.5 to 68.5		0.1	0.1	0.5	8.50
Cu Zn37	62.0 to 65.5		0.2	0.3	0.5**	8.45
Cu Zn40	59.0 to 62.0		0.2	0.3	0.5**	8.40
* For information only. ** Excluding Pb.						