



SLOVENSKI STANDARD

SIST EN 28654:1998

01-april-1998

Barve zlatih zlitin - Definicija, barvni odtenki in označevanje (ISO 8654:1987)

Colours of gold alloys - Definition, range of colours and designation (ISO 8654:1987)

Farben von Goldlegierungen - Bestimmung, Farbenreihe und Bezeichnung (ISO 8654:1987)

Couleurs des alliages d'or - Définition, gamme de couleurs et désignations (ISO 8654:1987)

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Ta slovenski standard je istoveten z: ^{SIST EN 28654:1998} EN 28654:1992

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ICS:

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EUROPEAN STANDARD

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NORME EUROPÉENNE

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Descriptors: Jewels, gold alloys, colours, designation, chemical composition

English version

**Colours of gold alloys - Definition, range of
colours and designation (ISO 8654:1987)**

Couleurs des alliages d'or - Définition, gamme de couleurs et désignation (ISO 8654:1987) Farben von Goldlegierungen - Bestimmung, Farbenreihe und Bezeichnung (ISO 8654:1987)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard is the endorsement of ISO 8654. Endorsement of ISO 8654 was recommended by Technical Committee CEN/TC 283 "Precious metals - Applications in jewellery and associated products" under whose competence this European Standard will henceforth fall.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1993, and conflicting national standards shall be withdrawn at the latest by June 1993.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard : Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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Endorsement notice

SIST EN 28654:1998

The text of the International Standard ISO 8654:1987 was approved by CEN as a European Standard without any modification.

INTERNATIONAL STANDARD

ISO
8654

First edition
1987-08-15



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

Colours of gold alloys — Definition, range of colours and designation

Couleurs des alliages d'or — Définition, gamme de couleurs et désignation

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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 8654 was prepared by Technical Committee ISO/TC 174, *Jewellery*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Colours of gold alloys — Definition, range of colours and designation

0 Introduction

In the manufacture and sale of articles made of or coated with gold alloy, the colour of the surface of the product is an important characteristic. However, at present, an undue variety of colours of surface finishes is offered to the public. Some of these colours differ only slightly from one another.

The range of colours defined in this International Standard is intended to enable the manufacturer to limit the stock of different colours that he might be obliged to keep. It will also enable the purchaser to define his requirements with precision by referring to the designations given within this International Standard and so avoid the need for purchasing orders to be accompanied by colour samples.

1 Scope and field of application

This International Standard specifies a limited number of colours of gold alloys.

By specifying a range of gold alloy colours, this International Standard enables a corresponding range of polished gold colour slips to be produced for comparison purposes for use in routine transactions between manufacturer and purchaser. It applies to jewellery, and to watch cases and accessories made of gold alloys or watch cases and accessories with gold alloy coverings.

2 References

CIE Publication No. 15, *Colorimetry*.

CIE Publication No. 38, *Radiometric and photometric characteristics of materials and their measurement*.

3 Definition

colour of gold alloy: A three-dimensional colour space represented by the chromaticity co-ordinates x and y and reflectance ρ , in accordance with CIE Publication No. 15.

NOTE — When necessary for special purposes or in the field of national standardization, the chromaticity co-ordinates may be converted to other internationally or nationally agreed systems (e.g. CIE 1976 $L^*a^*b^*$ colour space or CIE 1976 $L^*u^*v^*$ colour space).

4 Range of colours and designation

The range of colours according to chromaticity co-ordinates are given in table 1.

5 Measurement method

5.1 Preparation of the samples

The samples to be measured shall have a polished surface. The finishing shall be continued until a constant reflectance grade has been achieved.

5.2 Apparatus

5.2.1 Integrating sphere spectrophotometer.

5.2.2 Standard illuminant, comprising a light source yielding the spectral distribution similar to that of the standard light source D 65 (daylight) specified in CIE Publication No. 15.

5.3 Test procedure

Measure the spectral reflectance in accordance with CIE Publication No. 38.

6 Colour slips

For comparison purposes in routine transactions, it is recommended that a range of polished gold alloy colour slips should be used that are prepared so that the colour of the surface of each colour slip accords with the chromaticity co-ordinates given in table 1 when measured in accordance with clause 5.

See the annex for the recommended chemical composition of colour slips.

Table 1

Colour designation	Chromaticity co-ordinates					
	Nominal value			Tolerances		
	<i>x</i>	<i>y</i>	ρ	<i>x</i>	<i>y</i>	ρ
0 N (yellow-green)	0,338 3	0,366 2	0,90	0,334 5	0,364 4	0,90 ^{+0,01} -0,08
				0,340 4	0,374 0	
				0,345 6	0,372 5	
				0,338 6	0,363 3	
1 N (pale yellow)	0,352 6	0,370 0	0,82	0,348 6	0,368 5	0,82 ^{+0,01} -0,08
				0,352 7	0,373 0	
				0,355 7	0,371 7	
				0,351 3	0,367 4	
2 N (light yellow)	0,359 0	0,376 6	0,82	0,355 8	0,376 4	0,82 ^{+0,01} -0,08
				0,360 0	0,381 0	
				0,363 5	0,379 5	
				0,359 0	0,375 0	
3 N (yellow)	0,360 1	0,372 9	0,79	0,357 8	0,372 4	0,79 ^{+0,01} -0,05
				0,362 3	0,376 7	
				0,366 3	0,374 8	
				0,361 4	0,370 7	
4 N (pink)	0,361 2	0,365 9	0,76	0,357 7	0,366 0	0,76 ^{+0,01} -0,05
				0,362 6	0,370 1	
				0,366 3	0,368 2	
				0,361 0	0,364 4	
5 N (red)	0,359 1	0,360 4	0,74	0,355 5	0,359 1	0,74 ^{+0,01} -0,05
				0,362 1	0,363 8	
				0,366 0	0,361 6	
				0,358 9	0,357 2	

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