



**SLOVENSKI STANDARD**  
**SIST EN 12164:1998/A1:2002**  
**01-februar-2002**

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**Baker in bakrove zlitine - Palice za obdelavo na avtomatih**

Copper and copper alloys - Rod for free machining purposes

Kupfer und Kupferlegierungen - Stangen für die spanende Bearbeitung

Cuivre et alliages de cuivre - Barres pour décolletage

**Ta slovenski standard je istoveten z: EN 12164:1998/A1:2000**

[SIST EN 12164:1998/A1:2002](https://standards.iteh.ai/catalog/standards/sist/3f1f318a-14b6-4228-b696-6651494bac57/sist-en-12164-1998-a1-2002)

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**ICS:**

77.150.30      Bakreni izdelki      Copper products

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12164:1998/A1**

May 2000

ICS 77.150.30

English version

## Copper and copper alloys - Rod for free machining purposes

Cuivre et alliages de cuivre - Barres pour décolletage

Kupfer und Kupferlegierungen - Stangen für die spanende  
Bearbeitung

This amendment A1 modifies the European Standard EN 12164:1998; it was approved by CEN on 22 April 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. 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.

This amendment exists 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

## Foreword

This Amendment EN 12164:1998/A1:2000 to EN 12164:1998 has been prepared by Technical Committee CEN/TC 133 "Copper and copper alloys", the secretariat of which is held by DIN.

This Amendment to the European Standard EN 12164:1998 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2000, and conflicting national standards shall be withdrawn at the latest by November 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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## Introduction

Delete the second paragraph and substitute the following:

Requirements were previously included in this standard for two alloys, namely CuZn39Pb2Sn (CW613N) and CuZn40Pb2Sn (CW619N), which because of their higher permitted levels of tin, iron and aluminium, had inferior machinability to CuZn39Pb2 (CW612N) and CuZn40Pb2 (CW617N) respectively. In view of this, CEN/TC 133 decided to withdraw these alloys from the standard but allowed sufficient time for their phasing out from production. These alloys, CuZn39Pb2Sn (CW613N) and CuZn40Pb2Sn (CW619N), were deleted from the standard on 1 January 2000.

## Table 2: Composition of copper-zinc-lead alloys

Delete from the table the block referring to Group E alloys, its contents and the footnote 2), i.e.

Group E alloys - These alloys have good machinability and limited cold workability <sup>2)</sup>													
CuZn39Pb2Sn <sup>2)</sup>	CW613N <sup>2)</sup>	min.	59,0	-	-	-	-	-	1,6	0,2	Rem.	-	8,4
		max.	60,0	0,1	-	0,4	-	0,3	2,5	0,5	-	0,2	
CuZn40Pb2Sn <sup>2)</sup>	CW619N <sup>2)</sup>	min.	57,0	-	-	-	-	-	1,6	0,2	Rem.	-	8,4
		max.	59,0	0,1	-	0,4	-	0,3	2,5	0,5	-	0,2	

<sup>2)</sup> Products in these alloys are unsuitable for machining at the highest speeds. They are therefore not available in sizes below 12 mm diameter, or across-flats. The alloys will be deleted from this standard by 1 January 2000.

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## Table 7

SIST EN 12164:1998/A1:2002

Delete 'CuZn39Pb2Sn<sup>2)</sup>' and 'CW613N<sup>2)</sup>' from the material symbol and number designations columns.

Delete 'CuZn40Pb2Sn<sup>2)</sup>' and 'CW619N<sup>2)</sup>' from the material symbol and number designations columns. Delete footnote 2) in its entirety from the frame at the end of table 7.