

TNI	Európske certifikované referenčné materiály (EURONORM-CRMs) na stanovenie chemického zloženia výrobkov zo železa a ocele	TNI CEN/TR 10317 42 0571
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European certified reference materials (EURONORM-CRMs) for the determination of the chemical composition of iron and steel products

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 10317:2020.
This Technical standard information includes the English version of CEN/TR 10317:2020.

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TECHNICAL REPORT**CEN/TR 10317****RAPPORT TECHNIQUE****TECHNISCHER BERICHT**

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Supersedes CEN/TR 10317:2014

English Version

European certified reference materials (EURONORM-CRMs) for the determination of the chemical composition of iron and steel products

Matériaux de référence certifiés européens (EURONORM-MRC) destinés à la détermination de la composition chimique des produits en acier et en fonte

Europäische zertifizierte Referenzmaterialien (EURONORM-ZRM) für die Bestimmung der chemischen Zusammensetzung von Eisen und Stahlerzeugnissen

This Technical Report was approved by CEN on 22 June 2020. It has been drawn up by the Technical Committee CEN/TC 459/SC 2.

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

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European foreword

This document (CEN/TR 10317:2020) has been prepared by Technical Committee CEN/TC 459/SC 2 (former ECISS/TC 102) "Methods of chemical analysis for iron and steel", the secretariat of which is held by SIS.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 10317:2014.

In comparison with the previous edition, CEN/TR 10317:2014, the following technical modifications have been made:

- title changed;
- deletion of all references to COCOR and ECISS;
- updating of the addresses of some of the producers;
- Bibliography updated.

CEN/TR 10317:2020 (E)**Introduction**

In accordance with the definition in ISO Guide 30, a Certified Reference Material (CRM) as described in this document is a “reference material (RM) characterized by a metrologically valid procedure for one or more specified properties, accompanied by a certificate that provides the value of the specified property, its associated uncertainty, and a statement of metrological traceability”.

Furthermore, it is accompanied by a certificate issued by the producing organization, after approval by the participating laboratories and all the producing organizations listed below:

- a) France:
 - 1) ArcelorMittal Maizières Research SA (AMMZ) [former Institut de Recherches de la Sidérurgie Française (IRSID)],
 - 2) Centre Technique des Industries de la Fonderie (CTIF);
- b) Germany: Iron and Steel CRM Working Group (AGZRM) comprising:
 - 1) Bundesanstalt für Materialforschung und -prüfung (BAM),
 - 2) Max-Planck-Institut für Eisenforschung (MPI),
 - 3) Stahlinstitut VDEh;
- c) Nordic Countries: Nordic CRM Working Group, (NCRMWG) comprising:
 - 1) Oy Narema AB,
 - 2) Jernkontoret.

NOTE Bureau of Analysed Samples Ltd (BAS) – United Kingdom – was a member of the EURONORM-CRM Producer’s Group from 1975 until 2013.

Since 1968, EURONORM-CRMs have been analysed by laboratories in most countries in the European Union (EU) or former European Community (EC).

Pending their eventual replacement by EURONORM-CRMs, a number of former national CRMs prepared, analysed and certified by laboratories in Germany, France and the United Kingdom respectively, were accepted as EURONORM-CRMs after their accuracy had been checked by other European laboratories. This procedure ceased in 1990.

1 Scope

This document describes the classification, method of sample preparation, certification main rules and certificate content of the EURONORM-CRMs.

It also details the sample presentation of the various producers' organizations and the distributing sources.

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