
Aluminij in aluminijeve zlitine – Odpadni aluminij – 15. del: Odpadni aluminij iz uporabljene embalaže, s katerega so odstranjene površinske prevleke

Aluminium and aluminium alloys - Scrap - Part 15: Decoated aluminium scrap from post-consumer aluminium packagings

Aluminium und Aluminiumlegierungen - Schrott - Teil 15: Von Beschichtung befreiter Aluminiumschrott aus gebrauchten Aluminiumverpackungen

Aluminium et alliages d'aluminium - Scrap (matieres premieres pour recyclage) - Partie 15: Scrap en aluminium délaqué provenant d'emballages usagés en aluminium

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ICS:

13.030.50	Recikliranje	Recycling
77.120.10	Aluminij in aluminijeve zlitine	Aluminium and aluminium alloys

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en

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EUROPEAN STANDARD
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EN 13920-15

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This European Standard was approved by CEN on 28 February 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 13920-15:2003) has been prepared by Technical Committee CEN/TC 132, "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

Within its programme of work, Technical Committee CEN/TC 132 has entrusted CEN/TC132/WG 20 "Scrap" to prepare the following standard.

EN 13920 comprises the following parts under the general title "*Aluminium and aluminium alloys — Scrap*":

- *Part 1: General requirements, sampling and tests*
- *Part 2: Unalloyed aluminium scrap*
- *Part 3: Wire and cable scrap*
- *Part 4: Scrap consisting of one single wrought alloy*
- *Part 5: Scrap consisting of two or more wrought alloys of the same series*
- *Part 6: Scrap consisting of two or more wrought alloys*
- *Part 7: Scrap consisting of castings*
- *Part 8: Scrap consisting of non-ferrous materials from shredding processes destined to aluminium separation processes*
- *Part 9: Scrap from aluminium separation processes of non-ferrous shredded materials*
- *Part 10: Scrap consisting of used aluminium beverage cans*
- *Part 11: Scrap consisting of aluminium-copper radiators*
- *Part 12: Turnings consisting of one single alloy*
- *Part 13: Mixed turnings consisting of two or more alloys*
- *Part 14: Scrap from post-consumer aluminium packagings*
- *Part 15: Decoated aluminium scrap from post-consumer aluminium packagings*
- *Part 16: Scrap consisting of skimmings, drosses, spills and metallics*

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

EN 13920-15:2003 (E)**1 Scope**

This European Standard specifies characteristics, chemical composition and metal yield of decoated aluminium scrap obtained by decoating mixed used aluminium packagings through various processes, e.g. pyrolysis, mechanical delamination, chemical delamination or a combination of these. It also applies to aluminium scrap separated from the bottom ashes of incinerators.

EXAMPLE A mix of used aluminium packaging scrap of different alloys which were decoated to be used for melting or other forms of metal recycling.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

prEN 12258-3:2000, *Aluminium and aluminium alloys — Terms and definitions — Part 3: Scrap.*

EN 13920-1:2003, *Aluminium and aluminium alloys — Scrap — Part 1: General requirements, sampling and tests.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN 12258-3:2000 and EN 13920-1:2003 apply.

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4 Ordering information

The ordering information shall include:

- the number of this European Standard (EN 13920-15);
- the scrap category (decoated aluminium scrap from post-consumer aluminium packagings);
- the gross mass of the consignment;
- the definition of the beginning and end of the period during which the scrap shall be delivered;
- any characteristics deviating from those specified under 5.1, e.g. size of pieces, presence of foreign material.

The ordering information should include:

- information about the origin of the scrap;
- any information about size and surface condition of the pieces, whenever meaningful.

5 Requirements

5.1 General

In addition to the requirements specified in EN 13920-1 the requirements given in 5.2, 5.3 and 5.4 shall be met.

If the scrap does not meet all these requirements, the supplier shall notify the deviating characteristics to the purchaser and shall obtain his agreement before shipment.

5.2 Characteristics

The scrap shall not contain free iron.

The scrap shall not be heavily oxidized by the adopted decoating process.

The scrap shall not contain fines less than 1 mm in size and shall be free from non-metallic foreign materials.

5.3 Chemical composition

The aluminium scrap according to this standard, after magnetic removal of free iron and appropriate melting shall have the chemical composition shown in Table 1.

Table 1 — Chemical composition

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Composition in percent (mass fraction)

Si	Fe	Cu	Mn	Mg	Zn	Pb+Sn	others each	Al ^a
max.	max.	max.	max.	max.	max.	max.	max.	min.
1,0	1,0	2,5	0,40	0,20	0,8	0,20	0,10	remainder
^a The aluminium content is the difference between 100 % and the total of all the other elements present with values no less than 0,010 % rounded to the second decimal (before the calculation is made).								

5.4 Metal yield

The metal yield of the scrap as determined in accordance with EN 13920-1, related to mass in the as-delivered condition, shall be ≥ 80 %.

NOTE Different decoating processes can lead to different values for metal yields.

6 Classification procedure, treatment of non-conformities and arbitration

The classification procedure which includes sampling and tests, the treatment of non-conformities and arbitration shall be in accordance with EN 13920-1, as appropriate.