

Aluminium and aluminium alloys — Scrap —

Part 9: Scrap from aluminium
separation processes of non-ferrous
shredded materials

The European Standard EN 13920-9:2003 has the status of a
British Standard

ICS 13.030.50; 77.120.10

National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 6, an inside back cover and a back cover.

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English version

**Aluminium and aluminium alloys - Scrap - Part 9: Scrap from
aluminium separation processes of non-ferrous shredded
materials**

Aluminium et alliages d'aluminium - Scrap (matières
premières pour recyclage) - Partie 9: Scrap d'aluminium
provenant des procédés de séparation des résidus non-
ferreux de broyage

Aluminium und Aluminiumlegierungen - Schrott - Teil 9:
Schrott aus Aluminiumseparationsverfahren von
geschredderten Nichteisenmaterialien

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

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Foreword

This document (EN 13920-9:2003) 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of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.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.

1 Scope

This European Standard specifies the characteristics, chemical composition and metal yield of the aluminium scrap fraction obtained by flotation or other separation processes of non-ferrous shredded materials. It applies to scrap consisting mainly of aluminium castings, but also containing aluminium scrap from wrought products.

EXAMPLE The aluminium fraction as obtained by flotation of the material specified in EN 13920-8.

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.

4 Ordering information

The ordering information shall include:

- the number of this European Standard (EN 13920-9);
- the scrap category (scrap from aluminium separation processes of non-ferrous shredded materials);
- 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, for example 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 consist of pieces not smaller than 10 mm and not exceeding 200 mm. The sum of the percentages of oil, grease and other non-metallic materials in the scrap shall not exceed 2 % (mass fraction). The scrap shall be free from metallic foreign materials.

5.3 Chemical composition

If not otherwise agreed, the scrap, after melting, shall have a chemical composition as shown in Table 1.

Table 1 — Chemical composition

Composition in percent (mass fraction)

Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Pb	Sn	others each	Al ^a
max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	min.
9,0	1,1	3,5	0,50	0,50	0,30	1,2	0,15	0,20	0,10	0,15	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 scrap pertaining to this standard as determined in accordance with EN 13920-1 shall be ≥ 90 %.

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.

Bibliography

EN 13920-8, Aluminium and aluminium alloys — Scrap — Part 8: Scrap consisting of non-ferrous materials from shredding processes destined to aluminium separation processes.

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