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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13586-2021

Replacing GB/T 13586-2006

Recycled aluminium

回收铝

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. This document replaces GB/T 13586-2006 "Aluminum and Aluminum Alloy Scraps", compared with GB/T 13586-2006, except for structural adjustments and compilations. In addition to the editorial changes, the main technical changes are as follows:

- a) Change the file name to "Recycled Aluminum";
- b) The "scope" requirements are changed (see Chapter 1, Chapter 1 of the 2006 edition);
- c) Added "new aluminum wire (cable) of the same brand", "new aluminum wire (cable) of the same series", "electrical aluminum pellets", "conductive aluminum tubes, rods, and profiles", and "bundle bundles of briquettes" "Old aluminum cans", "All-aluminum automobile heat exchangers", "Forged aluminum wheels", "New coating foils", "New materials extruded with the same brand", "Old materials extruded with the same brand" "Mixed and extruded old material", "Extrusion material 10/10", "Sprayed aluminum extrusion material", "Door and window aluminum material", aluminum plate, strip, aluminum extrusion material and other aluminum "Mixed new processing waste and geometric waste", "Mixed old aluminum", "pure aluminum processing waste and geometric waste", and "new processing waste of the same brand" "Materials and geometric waste", "aircraft aluminum crushed materials", "ship aluminum castings", "casting wheels", "wear debris", "vehicle crushing materials", and "incineration car crushing materials" 29 types of recycled aluminum such as "material", "miscellaneous aluminum", "overflow aluminum", and "skimming" (see Chapter 4);
- d) Change "bright aluminum wire" to "new pure aluminum wire (cable)", change "hybrid bright aluminum wire" to "hybrid new aluminum wire (cable)", change "old Change "Aluminum wire" to "Old pure aluminum wire (cable)", change "Old mixed aluminum wire" to "Mixed old aluminum wire (cable)", change "Conductive plate" To "conductive aluminum plate", change "new cans" to "new aluminum cans", change "old cans" to "old aluminum

cans", change "cans to break Change "Slice" to "Old Aluminum Can Slices", Change "Can Press Block" to "Pack and Bundle Old Aluminum Cans", change "Bundled Cans" To "bundle old aluminum cans", change "new PS substrate" to "new clean printing plate base", and change "old PS substrate" to "clean printing Brush the base", change the "low copper aluminum plate" to "mixed low copper aluminum processing residual materials and geometric waste", and change the "similar aluminum plate" to "the same Brand aluminum plate", the "mixed new aluminum plate" is changed to the "mixed new processing residue and geometric waste" in the aluminum plate and strip, and the "miscellaneous old aluminum Change "plate" to "clean mixed old aluminum plate", change "radiator aluminum sheet" to "aluminum copper heat exchanger", change "similar aluminum" To "cast, forge, and extrude new materials of the same brand", change "mixed aluminum ingots" to "complex ingots", and change "tie rodless aluminum pistons" to "clean "Clean aluminum piston", change "Aluminum piston with tie rod" to "Clean aluminum piston with strut", and change "Similar aluminum castings" to "Single Jinxin Aluminum Castings", change "Similar Aluminum Scraps" to "Same Brand Aluminum Scraps, and Change "Mixed Aluminum Scraps" to "Hybrid Aluminum Car Milling Drilling Boring Scraps", Change "Aluminum Fragment" to "Aluminum Broken Material", "Mixed Fragment" to "Mixed Metal Broken Material", and "Furnace Bottom Agglomeration" to "Furnace Slag" (see Chapter 4, Chapter 3 of the.2006 edition);

e) Deleted 5 types of recycled aluminum including "new scrap", "miscellaneous aluminum", "mixed scrap", "similar aluminum castings" and "aluminum gray" (see the.2006 edition Chapter 3);

f) Changed the "recycling aluminum requirements" (see Chapter 4, Chapter 3 of the.2006 edition);

g) The test methods, inspection rules and packaging, marking, transportation and storage contents have been changed (see Chapter 5, Chapter 6, Chapter 7,.2006 Version Chapter 4, Chapter 5, Chapter 6);

h) A chapter "Contents of Purchase Order (or Contract)" has been added (see Chapter 8). Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed by China Nonferrous Metals Industry Association. This document is under the jurisdiction of the National Non-ferrous Metals Standardization Technical Committee (SAC/TC243). Drafting organizations of this document. Shandong Chuangxin Metal Technology Co., Ltd., Non-ferrous Metal Technology and Economic Research Institute Co., Ltd., Daye City Hong Tai Aluminum Co., Ltd., Shandong Nanshan Science and Technology Research Institute Co., Ltd., Hebei Xinlizhong Nonferrous Metals Group Co., Ltd., Zhaoqing South Duchengxin Aluminum Co., Ltd., Zhaoqing Dazheng Aluminum Co., Ltd., Sihui Huihuang Metal Products Co., Ltd., Foshan Nanhai Chuangli Nonferrous Metals Co., Ltd. Metal Products Co., Ltd., Chinalco Qingdao Light Metal Co., Ltd., Sichuan Samsung New

Material Technology Co., Ltd., Dongliang Aluminum Co., Ltd. The main drafters of this document. Zhao Xiaoguang, Ma Cunzhen, Cui Lixin, Wang Jiwei, Tang Aijun, Ge Lixin, Wu Xinfeng, Li Zhigang, Wang Zaiguo, Ge Sujing, Xiangjiafa, Zhao Rong, Liang Qiuxian, Huang Jianliang, Wang Zhangya, Wang Zheng, Shi Baiquan. The previous versions of this document and the documents replaced are as follows:

---First published in.1992 as GB/T 13586-1992, first revised in.2006;

---This is the second revision. Recycled aluminum

1 Scope

GB/T 13586-2021 is the Chinese national standard on recycled aluminium, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 20 August 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2022. Classification: ICS 77.120.10, CCS H61. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification and requirements, test methods, inspection rules, markings, packaging, transportation and storage, quality certificates, order The content of the manifest (or contract). This document is applicable to recycled aluminum that is recycled and classified by society and factories.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 8005 (all parts) Terminology for aluminum and aluminum alloys

GB/T 38472 Recycled cast aluminum alloy raw materials

GB/T 40386 Recycled pure aluminum raw materials

GB/T 40382-2021 Recycled deformed aluminum alloy raw materials

3 Terms and definitions

The terms and definitions defined in GB/T 8005 (all parts) apply to this document.

4 Classification and requirements

See Table 1 for the classification and requirements of recycled aluminum. Table

1 Classification and requirements of recycled aluminum Recycling aluminum classification a Don't recycle aluminum name Recycling aluminum requirements b, c, d, e New pure aluminum wire (cable) NewPureAluminium WireandCable (Talon) Recycled aluminum composed of new and clean pure aluminum wires and cables. No aluminum alloy wire, cast wire (mesh), iron, insulation skin and other impurities Old pure aluminum wire (cable) OldPureAluminium WireandCable (Taste) Recycled aluminum composed of old pure aluminum wires and cables. Surface oxides and dirt are less than 1% of the total recycled aluminum. No aluminum alloy wire, cast wire (mesh), iron, insulation skin and other impurities New aluminum wire (cable) of the same brand NewSegregatedAluminiumAloyWire andCable Recycled aluminum composed of new, clean, aluminum alloy wires and cables of the same brand. No polished wire (net), iron, insulation and other impurities