

YS

**Nonferrous Metal Industry Standard of the
People's Republic of China**

YS/T 1552—2022

Crude lithium carbonate

粗碳酸锂

(English Translation)

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Foreword

SAC/TC 243 is in charge of this English translation. In case of any doubt about the contents of English translation, the Chinese original shall be considered authoritative.

This document is drafted in accordance with the rules given in the GB/T 1.1—2020 Directive for standardization—Part 1: Rules for structure and drafting of standardization documents.

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

This document was proposed by China nonferrous metals industry association.

This document was prepared by SAC/TC 243 National Nonferrous Metals Standardization Technical Committee.

Crude lithium carbonate □

1 Scope

This document specifies technical requirements, test methods, inspection rules, signs, packaging, transportation, storage, accompanying documents and purchase orders of crude lithium carbonate.

This document is applicable to the crude lithium carbonate processed or recovered from lithium-containing minerals, lithium ion battery wastes and other lithium-containing materials.

2 Normative references

The following normative document, through reference in this text, constituting the indispensable items of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6284, Chemical products for industrial use — General method for determination of water content — The loss of mass on drying method

GB/T 8170, Rules of rounding off for numerical values & expression and judgement of limiting values

3 Terms and definitions

□ No terms nor definitions are listed in this document. □

4 Technical requirements

4.1 Chemical composition

The chemical compositions of the product shall conform to the provisions in Table 1.

Table 1 Chemical compositions

Li ₂ CO ₃ Content, min.	Mass fraction/%											
	Impurity contents, max.											
	Na	Fe	Ca	Mg	P	F	As	Cd	Pb	SO ₄ ²⁻	Cl	Acid insoluble
80.0	2.0	0.1	1.0	2.0	0.5	0.5	0.1	0.01	0.01	3.0	0.5	0.5
Note: Chemical composition analysis is based on dry basis												

4.2 Moisture content

The moisture content of the product shall be not more than 30%.

4.3 Appearance quality

The product shall be white, pale, gray powder-shaped or block-shaped without any visible inclusions.