



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

GB/T 17850.9-2021

**Preparation of steel substrates before application of paints and
related products - Specifications for non-metallic blast-cleaning
abrasives - Part 9: Staurolite**

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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 is Part 9 of GB/T 17850 "Technical Requirements for Non-metallic Abrasives for Blast Cleaning of Steel Surface Treatment before Coating"

point. GB/T 17850 has released the following parts.

---Part 1. Guidelines and Classification;

---Part 3. Copper refining slag;

---Part 4. Coal slag;

---Part 5. Nickel refining slag;

---Part 6. Ironmaking slag;

---Part 7. Fused alumina;

---Part 9. Crusader;

---Part 11. Special molding sand for steel slag.

This document is equivalent to the adoption of ISO 11126-9:1999 "Technical requirements for non-metallic abrasives for blast cleaning of steel surface treatment before coating"

Seeking Part 9. Cross Stone.

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 17849-1999 Test method for non-metallic abrasives for blast cleaning of steel surface treatment before coating [eqv

ISO 11127 (all parts)].

Introduction

This document is Part 9 of GB/T 17850 "Technical Requirements for Non-metallic Abrasives for Blast Cleaning of Steel Surface Treatment before Coating"

It specifies the technical requirements for travertine abrasives for blast cleaning.

SAC/TC5/SC6 National Coatings and Pigments Standardization Technical Committee

According to the technical requirements of different types of non-metallic abrasives, GB/T 17850 series standards have been formulated, and they are divided into multiple types according to the types of non-metallic abrasives.

Parts. This section specifies the particle size range and apparent density for the travertine abrasive used for blast cleaning of steel surface treatment before coating.

Degrees, Mohs hardness, etc., to meet the needs of the producers, suppliers, purchasers, testing agencies, etc. of cruciform abrasives.

The first part of GB/T 17850 is "Technical requirements for non-metallic abrasives for blast cleaning of steel surface treatment before coating, No. 1

Part. Guidelines and Classification", stipulates the classification and marking of non-metallic abrasives used for blast cleaning of steel surface treatment before coating.

Part 3, Part 4, Part 5, Part 6, Part 7, Part 9 and Part 11 of GB/T 17850 are for copper

Refining slag, coal slag, nickel refining slag, iron-making slag, fused alumina, staurolite and steel slag special molding sand 7 types of non-metallic abrasives specify particles

Technical requirements for size range, apparent density, Mohs hardness, etc.

Over the years, abrasive blast cleaning technology has been widely used in surface cleaning and surface pretreatment. There are many types of abrasives used, including metal grinding

Two major categories of abrasives and non-metallic abrasives. Non-metallic abrasives include copper refining slag, ironmaking slag, steel slag special molding sand, etc., the types of abrasive products and their

The quality of the product directly affects the state of the processed surface, and has a significant impact on the appearance and roughness of the processed surface.

Staurolite is one of the non-metallic abrasives used for blast cleaning in the field of steel surface treatment before coating. Especially as some special

Special abrasives for steel surface treatment, staurolite products have been applied to varying degrees in the steel surface treatment and surface treatment industry before coating in my country.

For example, in the surface treatment of steel materials such as chemical tankers and liquefied gas tankers, it can improve the adhesion of anti-corrosion coatings, thereby improving the anti-corrosion performance and ensuring this

The safety and prolonged service life of some special ships.

The issuance and implementation of this document can further meet the needs of my country's steel surface treatment and accelerate the integration of my country's national standards and international advanced standards.

Rail, making my country's technical requirements for this product more in line with international requirements, and at the same time, it can further improve the GB/T 17850

Technical Requirements for Non-metallic Abrasives for Blasting Cleaning of Materials Surface Treatment" series of standards, which are convenient for industry to adopt.

Steel surface treatment before coating

Technical requirements for non-metallic abrasives for blast cleaning

Part 9. Crusader

Warning --- For the equipment, materials and abrasives used in surface treatment, if used carelessly, they may be dangerous. Many countries are

During or after use (waste management), materials and abrasives that are considered hazardous, such as free silicon, carcinogens or toxic substances, are regulated.

Certainly. Therefore, these regulations should be followed. It is important to ensure that adequate instructions are given and all necessary precautions are taken.

1 Scope

This document specifies the particle size range, apparent density, Mohs hardness, water content, and electrical power of the water leaching liquid for travertine abrasives for blast cleaning.

Conductivity and water-soluble chloride content, etc.

The requirements specified in this document only apply to unused abrasives, not to abrasives during or after use.

For the test methods of non-metallic abrasives for blast cleaning, see the various parts of ISO 11127.

Note 1. For non-metallic abrasives, refer to the references for foreign standards commonly referred to.

Note 2. Although this document is specially formulated to meet the surface treatment requirements of steel structures, the specified characteristics are generally also applicable

to the use of blast cleaning technology.

Surfaces or parts of other materials processed by the technology. These regulations have been introduced in ISO 8504-2.1992 "Steel surface treatment and surface treatment methods before coating.

Law Part 2.Abrasive Blast Cleaning is given in.

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.

ISO 11127-1.1993 Test method for non-metallic abrasives for blast cleaning of steel surface treatment before coating. Part 1.

Sampling

(Preparation of steel substrates before application of paints and related products-Test methods for non-metallic blast-cleaning abrasives-Part 1.Sampling)

ISO 11127-2.1993 Test method for non-metallic abrasives for blast cleaning of steel surface treatment before coating. Part 2.

Determination of particle size distribution

(Preparation of steel substrates before application of paints and related products-Test methods for non-metallic blast-cleaning abrasives-Part 2.Determination of particle size distribution)

ISO 11127-3.1993 Test method for non-metallic abrasives for blast cleaning of steel surface treatment before coating. Part 3.

Determination of apparent density

(Preparation of steel substrates before application of paints and related products-Test methods for non-metallic blast-cleaning abrasives-Part 3.Determination of apparent density)

ISO 11127-4.1993 Test method for non-metallic abrasives for blast cleaning of steel surface treatment before coating. Part 4.

Evaluation of hardness by water glass slide test

(Preparation of steel substrates before application of paints and related products-Test methods for non-metallic blast-cleaning abrasives-Part