

TECHNICAL SPECIFICATIONS

FORM P927

CERTAIN-TEED PRODUCTS CORPORATION
PIPE DIVISION

SPECIFICATIONS CLASSIFICATION:

Standard Purchasing Specification

T.C.O. REF. NO.

4

SPECIFICATION NO:

501

PAGE NO.:

1

SUPERSEDES:

May 15, 1968

DATE OF ISSUE:

September 11, 1969

DESCRIPTION:

Pulverized Silica

A. GENERAL1. Description

Pulverized silica, for purposes of this specification, consists of a high purity grade of natural occurring crystalline sand or silica which has been subjected to grinding and classification processes in order to control its fineness. In some cases it may be necessary to wash the sand or silica in order to improve its purity and color. The re-fined pulverized silica shall be white to light gray in color.

B. USE

Pulverized silica reacts chemically with free calcium hydroxide formed during high pressure steam curing of Portland Cement.

C. LOT SIZE

For sampling and inspection purposes, a lot shall be defined as the quantity of pulverized silica shipped in a single carrier, or in one day.

D. REQUIREMENTS1. Special1.1 Initial Approval

All pulverized silica suppliers shall be approved in writing by the Technical Services Manager - Materials of Certain-teed Asbestos and Plastics (CAP) Division. Any change in the source of the silica or in its processing by an approved supplier must be authorized in writing by the Technical Services Manager - Materials before the end product may be supplied to CAP Division plants.

2. Chemical and Physical Requirements

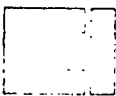
Chemical and physical requirements shall be in accordance with Tables A and B.

CTD014953

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	Standard Purchasing Specification		
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E. TEST METHODS1. Chemical and Physical

The following tests will be conducted in accordance with the applicable CAP Division Test Methods.

<u>Test</u>	<u>Test Method</u>
Free Moisture Content	TM - 30
Loss on ignition	TM - 31
Total silica (Si O ₂)	TM - 25
Per cent available Si O ₂	TM - 25
Surface area	TM - 3
Wet sieve analysis	TM - 24

F. ACCEPTANCE AND REJECTION

CAP Division reserves the right to reject any lot of pulverized silica which does not conform to the requirements of this specification. If any lot is rejected, the supplier shall be advised within 24 hours and the reason for the rejection explained.

G. PACKAGING AND MARKING

Pulverized silica shall be supplied in bulk shipments by railroad car, truck or direct pipe line. Unless otherwise specified, each lot shall be marked as CPC 501 Silica and identified by the delivery date. All invoices shall include this information.

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TECHNICAL SPECIFICATIONS

CertainTeed

CertainTeed Corporation
Pipe and Plastics Group

SPECIFICATIONS CLASSIFICATION:

A/C Standard Purchasing Specification

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SUPERSEDES:

April 25, 1973

DATE OF ISSUE:

January 19, 1984

DESCRIPTION:

Pulverized Silica

TABLE A

Chemical Requirements - Type A and Type B

<u>Ingredient or Item</u>	<u>Max. %</u>	<u>Min. %</u>
Free Moisture Content	1.0	
Loss on Ignition	1.0	
Total SiO ₂		95.0
Available SiO ₂		90.0

TABLE B

Physical Requirements

<u>Item</u>	<u>Requirement</u>	
	<u>Type A</u>	<u>Type B</u>
Surface Area, Blaine sq. cm./gram		
a. 98 + % SiO ₂ (Total)	--	3200 ± 400
b. 96 - 98% SiO ₂ (Total)	3300 ± 300	--
c. 95 - 96% SiO ₂ (Total)	3600 ± 300	--
Residue on U.S. Std. No. 220 Mesh Sieve, %, Max.	10.0	15.0
Residue on U.S. Std. No. 325 Mesh Sieve, %, Max.	35.0	40.0

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DATE OF ISSUE: January 19, 1984	SPECIFICATION NO: 501	PAGE NO.: 3-A
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DESCRIPTION:

Pulverized Silica

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SPECIFICATION NO:

501 Addendum

PAGE NO.:

1

SUPERSEDES:

May 15, 1968

DATE OF ISSUE:

September 11, 1969

DESCRIPTION:

Pulverized Silica

NOT TO BE DISTRIBUTED TO VENDORS1. General

This addendum describes the following:

1. Approved suppliers of pulverized silica
2. Testing
3. Rejection

2. Approved suppliers of pulverized silica:

Plant 54 - Pennsylvania Glass Sand Corp.
Mapleton, Penna. Plant
3 Penn Center
Pittsburgh, Penna. 15206

Plant 56 - (1) Pulverized Sand of California, Inc.
Box 3215
Riverside, California 92509

(2) Del Monte Properties Co.
2607 Russ Building
235 Montgomery St.
San Francisco, California 94104

Plant 57 - Heart of Texas Mining Corp.
2510 Fidelity Union Tower
Dallas, Texas 75201

Plant 58 - (1) South River Sand
Old Bridge, New Jersey 08857

(2) National Glass Sand Co.
P. O. Box 145
Millville, New Jersey 08332

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Sept. 11, 1969

DATE OF ISSUE:

FEB 12 1974

DESCRIPTION:

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Plant 59 - (1) Pioneer Silica Products
Pacific, Missouri

Order from:

Pennsylvania Glass Sand Corp.
8000 Bonhomme Road
St. Louis, Missouri 63105

(2) Wedron Silica Co.
Wedron, Illinois. 60557

Plant 60 - Pulverized Sand of California, Inc.
Box 3215
Riverside, California 92509

3. Testing

3.1. Plant Testing

The Quality Control Engineer at each CAP Division plant shall conduct the following tests each week on a representative sample.

- a. Surface Area - Blaine in accordance with Test Method TM - 3.
- b. Wet Sieve Analysis in accordance with Test Method TM - 24.

3.2. For sampling purposes, the lot sample shall be composed of at least three randomly selected sub-samples of approximately two pounds each, properly composited and quartered. The sampling may be done on the carrier prior to discharge, or at reasonably spaced intervals during the discharge operation. Caution should be exercised during sampling to prevent stratification of the sub-samples. Samples should be stored in a clean, air-tight, dry container.

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4. Rejection

Lots of pulverized silica which do not conform to the requirements of this specification may be rejected by the Plant Quality Control Engineer after consultation with the Plant Manager. In some cases the Plant Manager may decide to use substandard silica rather than stop production. If a lot does not conform to this specification (even though it is used), Plant Purchasing, Quality Control Manager, Technical Services Manager - Materials and Central Purchasing shall be informed as soon as possible and the reason for nonconformance explained. Plant Purchasing will notify the supplier of all rejections and sub-standard material.

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