

RONGTONG MICROSILICA

Technical Data Sheet

DESCRIPTION:

Rongtong Microsilica is a superfine pozzolan (100 times finer than cement), with a beneficial effect for concrete.

Reacting with the liberated lime, from the water/cement reaction, **Rongtong Microsilica** improves the strength and durability of concrete:

TYPICAL BENEFITS OF RONGTONG MICROSILICA:

- Increase both the compressive and tensile strength of concrete.
- Improves concrete resistance to abrasion.
- Reduces water permeability.
- Prevents alkali-silica reaction in concrete.

USES:

Principle uses of **Rongtong** concrete includes: concrete slabs, pavements, driveways, kerbs, pipes, overlays, patch repair, thin section walling, concrete block, marine concrete, heavy industrial floors, etc...

COMPATIBILITY WITH OTHER ADMIXTURES AND CEMENTS:

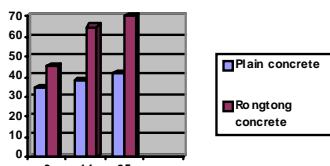
Rongtong Microsilica can be used with all types of cement and is compatible with all admixtures.

Rongtong Microsilica meets the requirements in the Standard Specifications for Microsilica (Silica Fume) – ASTM C 1240-95a and the Norwegian Standard NS 3045.

Rongtong Microsilica is not characterized as dangerous to the environment.

STRENGTH COMPARISON:

- Indicative strength comparison between plain concrete and Rongtong concrete at 3 days, 14 days and 28 days



TYPICAL TECHNICAL AND PHYSICAL PROPERTIES:

Bulk Density	:	620 kg
SiO ₂	:	min. 90%
SO ₃	:	max. 2%
C	:	max. 2.5%
C1	:	max. 0.1%
Lol	:	max. 3%
Particles + 44 micron:		max. 3%
Specific Surface Area:		min 15 m ² /gr.
Particle shape	:	Angular
Colour	:	Grey

PACKAGING:

Rongtong Microsilica is available in jumbo bags of Circa 1.0 MT.

STORAGE:

Should be stored in dry conditions, similar to cement.

TECHNICAL ADVICE:

The technical Department is available to assist you in the correct use of our material and its resources are at your disposal entirely without obligation.

SAFETY PRECAUTIONS:

Information contained in this data sheet is based on knowledge considered to be true and correct and is offered for the user's consideration, investigation and verification, but we do not warrant the results to be obtained. No statement, recommendation or suggestion is intended for any use which will infringe any patent or copyright.

Rongtong Microsilica is marketed in the Gulf Region by:



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Affiliate Code : F615001

Certificate N° : 09022400FE

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CERTIFICATE OF QUALITY

SGS-CSTC Order No.

Principle

BOSS Order No.

Declared Commodity

Declared Quantity

Inspection Date

Inspection Location

Order to Be Performed

MN2009/0069TJ-2

Gulf Concreting Products FZC

11599651

Silica Fume

288 Metric Tons being a part of 2160 Metric Tons

February 10, 2009

Hujiayuan Warehouse in Tianjin, China

Checking Packing and Marking, Sampling and Analysis

Date: February 23, 2009

THIS IS TO CERTIFY that in accordance with instructions received from our Principal, Gulf Concreting Products FZC, to perform **Checking Packing and Marking, Sampling and Analysis**, of the above Mentioned product, we hereby report the following:

Packing:

Cargo presented was found packed in 2-ply plastic bags said to be 900kg net each, white woven bag was found outside and with transparent plastic bag was found inside. The bags were in normal condition.

Marking:

During the inspection, the following marking was found, hereunder was an example:



Sampling:

According to ANSI/ASQC Z 1.4 Level II, total 125 bags were randomly selected from total cargo 2160 metric tons for sampling. Sample material was collected from the top, middle and bottom of the selected bags by standard sampling probe in the warehouse.

Analysis:

After sampling, all sample increments were handed to our Tianjin laboratory for analysis. All sample increments were thoroughly mixed, crushed and divided into 2 sets:

- 1 composite sample was sent to our laboratory to be used for chemical analysis.
- 1 set of sample was retained in our laboratory for three months for further reference purposes

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SGS-CSTC Standards Technical Services Co., Ltd.

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The result reported is based on ASTM C 1240 Standard and laboratory method.

Item	Test Item	Test Result	Test Method
1	SiO ₂	91.08 %	ASTM C114-2004
2	LOI	2.23 %	ASTM C311-2002
3	Moisture	2.28 %	ASTM C311-2002
4	Bulk Density	617 kg/m ³	ASTM D1240-2005

Remark:

Above results represented whole cargo of 2160 metric tons.

The above reflects our findings at time and place of inspection only and does not refer to any other matters.

This certificate does not evidence shipment.

This report reflects the results of the inspection at the time and place of inspection only. Although the inspection was carried out thoroughly and with due diligence, the reported findings are limited to the visual examination of the safely and readily accessible portions of the consignment only.

Due to the non-homogenous nature of the cargo and limited access during inspection items not recorded in the above description may be present.

SGS-CSTC STANDARDS TECHNICAL SERVICES CO., LTD. IN CHINA



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Analysis:

After sampling, all sample increments were handed to our Tianjin laboratory for analysis. All sample increments were thoroughly mixed, and divided into 3 sets:

- 1 composite sample was sent to our Tianjin laboratory to be used for chemical analysis.
- 2 sets of sample were retained in our laboratory for three months for further reference purposes

The result reported by our Tianjin laboratory as below:

Item	Test Item	Test Result	Test Method
1	SiO ₂	91.30%	ASTM C 114-2004
2	LOI	2.16%	ASTM C 311-2002
3	Moisture	0.56%	ASTM C 311-2002
4	Bulk Density	548kg/m ³	ASTM D 1240-2005

Remark:

The above results represented the quantity of total cargo 900mt.

Weather:

It was fine during inspection.

This certificate does not evidence shipment.

This report reflects the results of the inspection at the time and place of inspection only. Although the inspection was carried out thoroughly and with due diligence, the reported findings are limited to the visual examination of the safely and readily accessible portions of the consignment only.

Due to the non-homogenous nature of the cargo and limited access during inspection, items not recorded in the above description may be present.

***** SGS *****

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