



FUMED METAL OXIDE CERTIFICATE OF ANALYSIS

Sales Order Number 032115663756SX / 1
 Customer P.O.Number 26883-CBC/023/23
 Manufacturing Plant: Rheinfelden, Germany
 Grade CAB-O-SIL® MSP
 Customer Grade
 Quantity Shipped 900 KG
 Carrier Name KUEHNE+NAGEL NV_EUR
 Vehicle ID
 Lot Number 5509175 ✓
 Shipping Date 03 May 2023

PT. Brenntag
 Graha Pratama Building 17th Floor
 Jl. M.T. Haryono Kav. 15
 Jakarta 12810
 Attn : Elite
 Fax : 1 281 775 2197

Pack Date 03 Feb 2023

PHYSICAL AND CHEMICAL PROPERTIES

Property Description	Unit	Ref	Specification Min	Individual Value	Specification Max
EP Ident (silicates)		FMOEPI	Must Conform	CONFORMS	
EP - pH		FMOEPP	3.5	4.4	5.5
EP Chloride	ppm	FMOEPL		<250	250
EP - Loss on ignition	%	FMOEPLI		0.7	5.0
EP - Assay	%	FMOEPA	99.0	100.3	100.5
USP Ident-A (yellow colour)		FMOUSPIA	Must Conform	CONFORMS	
USP Ident-B (green-blue spot)		FMOUSPIB	Must Conform	CONFORMS	
USP - pH		FMOUSPP	3.5	4.2	5.5
USP Arsenic	ppm	FMOUSPAS		<8	8
USP - Loss on drying	%	FMOUSPLD		0.10	2.50
USP - Loss on ignition	%	FMOUSPLI		0.5	2.0
USP - Assay	%	FMOUSPA	99.0	100.0	100.5
JP Ident-1 (dissolve)		FMOJPI1	Must Conform	CONFORMS	
JP Ident-2 (blue colour)		FMOJPI2	Must Conform	CONFORMS	
JP Ident-3 (opaque bead)		FMOJPI3	Must Conform	CONFORMS	
JP Chloride	%	FMOJPCL		<0.011	0.011
JP Heavy Metals	ppm	FMOJPHM		<40	40
JP Aluminium		FMOJPAL	Must Conform	CONFORMS	
JP Calcium		FMOJPCA	Must Conform	CONFORMS	
JP Iron	ppm	FMOJPFE		<500	500
JP Arsenic	ppm	FMOJPAS		<5	5
JP - Loss on drying	%	FMOJPLD		0.10	7.00

Signature: Beate Scheidemantel Lab Manager Quality





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Property Description	Unit	Ref	Specification Min	Individual Value	Specification Max
JP - Loss on ignition	%	FMOJPLI		0.6	12.0
JP - Assay	%	FMOJPA	98.0	100.0	
Property Description	Unit	Ref	Specification Min	Average	Specification Max
BET Surface Area	m2/g	FMOCTM203	185.0	200.3	215.0
pH		FMOCTM100	3.850	4.088	4.150
325 Mesh Residue	%	FMOCTM120		0.0038	0.0200
Appearance		FMOCTM201	White	WHITE	

Previous Shipment Data

SIS	Date	SIS	Date	SIS	Date	SIS	Date
032115630272SX	24 Apr 23	032115614133SX	21 Feb 23	032115559021SX	15 Nov 22	032115497459SX	3 Aug 22

Signature: Beate Scheidemantel Lab Manager Quality



CABOT



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Manufacturing Plant:	Rheinfelden, Germany	PT. Brenntag
Grade	CAB-O-SIL® MSP	Graha Pratama Building 17th Floor
Customer Grade		Jl. M.T. Haryono Kav. 15
Quantity Shipped	900 KG	Jakarta 12810
Carrier Name	KUEHNE+NAGEL NV_EUR	Attn : Elite
Vehicle ID		Fax : 1 281 775 2197
Lot Number	5509175	
Shipping Date	03 May 2023	Pack Date 03 Feb 2023

TYPICAL PROPERTIES

Property Description	Unit	Ref	Value
Loss On Heating	%	FMOCTM231	1.0 max
Tamped Density	(g/l)	FMOCTM211	60 max

The data above was obtained from tests on samples taken during the time of production and/or packing of this shipment using ASTM or Cabot test methods. We do not guarantee the same results will be obtained by others in other laboratories and we disclaim liability resulting from the use of the contents of this report.

Pharmaceutical Information

CAB-O-SIL M-5P fumed silica is certified to meet all of the requirements for colloidal silicon dioxide as described in The U.S. Pharmacopoeia National Formulary. It also meets the requirements as described in the European Pharmacopoeia and the Japanese Pharmacopoeia (light anhydrous silicic acid).

Please refer to the latest version of the Cabot Pharma Grade Statement for the reference of edition of the different pharmacopoeia cited in this document. Pharma Grade Statement is valid for one year unless otherwise specified or modified.

Outside laboratory pharmacopoeia testing results from Untersuchungsinstitut Heppeler GmbH in Loerrach, Germany are included.

Materials of Plant or Animal Origin

CAB-O-SIL untreated fumed silica is manufactured from the vapor-phase hydrolysis of silicon compounds. There are no materials of animal or plant origin utilized in the manufacture of fumed silica. Therefore, all grades of CAB-O-SIL untreated fumed silica, including M-5P, are devoid of any genetically modified organisms and any plant or animal derived allergens or precursors of disease (BSE, TSE, etc.).

Kosher Certification

Kosher certification of CAB-O-SIL untreated fumed silica products manufactured at the Rheinfelden, Germany facility has been obtained from Swikosh GmbH in Switzerland.

Please contact your CAB-O-SIL representative for a copy of the certificate.

Halal Certification

Sources of Cabot Corporation Halal Certification of its CAB-O-SIL fumed silica products Rheinfelden, Germany facility: Halal Certification Services GmbH in Switzerland.

Please contact your CAB-O-SIL representative for a copy of these certificates

Shelf Life & Storage

The shelf life of CAB-O-SIL fumed silica is 2 years from the date of manufacture. Cabot recommends that CAB-O-SIL fumed silica be stored at ambient temperatures in a clean, dry area away from humidity and chemical vapors. Cabot also recommends the product be stored in its original package as long as possible. For more information please contact your CAB-O-SIL representative.

Date of Manufacture

As noted in the January 28, 2003 letter issued by Cabot concerning changes to our Certificates of Analysis (COA), the term "Date of Manufacture" is no longer used on this COA. This has been replaced with a "Pack Date" which is the same as the "Date of Manufacture" noted on previous certifications.

Signature: Beate Scheidemantel Lab Manager Quality



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COA Quality Signature

Certificates of Analysis (COA's) do not contain a written signature. The document is electronically created and the approval status is noted by the printed approval signature by the Quality Department.

Manufacturing Plant Address
Cabot GmbH
Kronenstrasse 2
D - 79618 Rheinfelden, Germany
+49(0)7623/7070

PalletNo/Container ID

Cabot Switzerland GmbH
Mühlentalstrasse 36/38
8200 Schaffhausen
Switzerland

Signature: Beate Scheidemantel Lab Manager Quality

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