


**SOLVAY
CHEMICALS, Inc.**
CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer

 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA

Certificate recipient

 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834892 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404048AR / Quantity **27.887,328 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) BSIU2109826

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
 77098-3701 Houston, TX
 Tel: 713 525-6500 - Fax: 713 525-7806

Approved by

 Steven R. Lewis
 Director of Quality Management - North America
 Solvay Chemicals, Inc.
 3737 Buffalo Speedway, Suite 800
 Houston, TX 77098 Phone - (713)525-6049


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 ZZ GLASS, INC.
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 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834878 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10325036AR / Quantity **27.778,464 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,82	>= 99,70
Sodium oxide (Na ₂ O)	%	58,38	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,05	<= 0,10
Loss on ignition	%	0,11	
Insoluble Substances in water	%	0,01	<= 0,05
Iron (Fe)	ppm	1,6	<= 8,0
Bulk Density	lb/ft ³	63,7	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	0,6	<= 3,0
US >=30 (600 Micron)	%	1,8	<= 12,0
US >=40 (425 Micron)	%	14,1	<= 35,0
US >=50 (300 Micron)	%	53,0	
US >=70 (212 Micron)	%	83,2	
US >=100 (150 Micron)	%	94,8	>= 84,0
US >=140 (106 Micron)	%	98,3	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,5	

Container (s) BMOU2593648

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
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 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834879 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10325036AR / Quantity **27.996,192 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,82	>= 99,70
Sodium oxide (Na ₂ O)	%	58,38	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,05	<= 0,10
Loss on ignition	%	0,11	
Insoluble Substances in water	%	0,01	<= 0,05
Iron (Fe)	ppm	1,6	<= 8,0
Bulk Density	lb/ft ³	63,7	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	0,6	<= 3,0
US >=30 (600 Micron)	%	1,8	<= 12,0
US >=40 (425 Micron)	%	14,1	<= 35,0
US >=50 (300 Micron)	%	53,0	
US >=70 (212 Micron)	%	83,2	
US >=100 (150 Micron)	%	94,8	>= 84,0
US >=140 (106 Micron)	%	98,3	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,5	

Container (s) UACU3452017

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 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Batch number	10404044AR
Delivery note	72834880 000010	Order	5549896 000010
Shipping date	29.04.2021	Customer ref.	SA-032-21(749)
Packaging	Bulk	Transport ID	NYK CONSTELLATION

DENSE SODA ASH
Industrial origin GREEN RIVER, WY
Batch number 10325036AR / Quantity 4.000,000 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,82	>= 99,70
Sodium oxide (Na ₂ O)	%	58,38	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,05	<= 0,10
Loss on ignition	%	0,11	
Insoluble Substances in water	%	0,01	<= 0,05
Iron (Fe)	ppm	1,6	<= 8,0
Bulk Density	lb/ft ³	63,7	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	0,6	<= 3,0
US >=30 (600 Micron)	%	1,8	<= 12,0
US >=40 (425 Micron)	%	14,1	<= 35,0
US >=50 (300 Micron)	%	53,0	
US >=70 (212 Micron)	%	83,2	
US >=100 (150 Micron)	%	94,8	>= 84,0
US >=140 (106 Micron)	%	98,3	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,5	

Industrial origin GREEN RIVER, WY
Batch number 10404044AR / Quantity 23.996,192 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	


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 ZZ GLASS, INC.
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 081601771 PANAMA
 PANAMA

Certificate recipient

 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834880 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft3	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As2O3	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) HLXU3164381

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
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 ZZ GLASS, INC.
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 081601771 PANAMA
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 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834881 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404044AR / Quantity **27.814,752 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) HAMU1039151

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
 77098-3701 Houston, TX
 Tel: 713 525-6500 - Fax: 713 525-7806
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**SOLVAY
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Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
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 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834882 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404044AR / Quantity **27.923,616 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) UACU4049618

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
 77098-3701 Houston, TX
 Tel: 713 525-6500 - Fax: 713 525-7806
Approved by
 Steven R. Lewis
 Director of Quality Management - North America
 Solvay Chemicals, Inc.
 3737 Buffalo Speedway, Suite 800
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**SOLVAY
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CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
Certificate recipient
 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Batch number	10404044AR
Delivery note	72834883 000010	Order	5549896 000010
Shipping date	29.04.2021	Customer ref.	SA-032-21(749)
Packaging	Bulk	Transport ID	NYK CONSTELLATION

DENSE SODA ASH
Industrial origin GREEN RIVER, WY
Batch number 10404065AR / Quantity 5.369,392 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Industrial origin GREEN RIVER, WY
Batch number 10404044AR / Quantity 22.400,000 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	


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 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834883 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft3	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As2O3	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) UACU3555720

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
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Approved by
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 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834884 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

Batch number 10404065AR / Quantity **27.796,608 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) FCIU4719477

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
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 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834885 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404065AR / Quantity **27.887,328 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) CAIU2567361

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 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834886 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404065AR / Quantity **27.905,472 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) UACU3839876

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
 77098-3701 Houston, TX
 Tel: 713 525-6500 - Fax: 713 525-7806

Approved by
 Steven R. Lewis
 Director of Quality Management - North America
 Solvay Chemicals, Inc.
 3737 Buffalo Speedway, Suite 800
 Houston, TX 77098 Phone - (713)525-6049



**SOLVAY
CHEMICALS, Inc.**

CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer		Certificate recipient	
ZZ GLASS, INC. CALLE AQUILINO DE LA GUARDIA 081601771 PANAMA PANAMA		CARIBBEAN GLASS INDUSTRY S.A. KM 28 AUTOPISTA JUAN PABLO DUARTE PEDRO BRAND DOMINICAN REP.	
Transport	4110523914	Batch number	10404064AR
Delivery note	72834887 000010	Order	5549896 000010
Shipping date	29.04.2021	Customer ref.	SA-032-21(749)
Packaging	Bulk	Transport ID	NYK CONSTELLATION

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

Batch number 10404065AR / Quantity 14.618,000 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Industrial origin GREEN RIVER, WY

Batch number 10404064AR / Quantity 13.151,392 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	


**SOLVAY
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CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
Certificate recipient
 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834887 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft3	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As2O3	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) TGHU0227840

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 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
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Approved by
 Steven R. Lewis
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 Houston, TX 77098 Phone - (713)525-6049


**SOLVAY
CHEMICALS, Inc.**
CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
Certificate recipient
 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834888 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

Batch number 10404064AR / Quantity **27.823,824 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) HLXU3258747

This Certificate was automatically produced and is valid without signature

 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
 77098-3701 Houston, TX
 Tel: 713 525-6500 - Fax: 713 525-7806
Approved by
 Steven R. Lewis
 Director of Quality Management - North America
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 Houston, TX 77098 Phone - (713)525-6049


**SOLVAY
CHEMICALS, Inc.**
CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
Certificate recipient
 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834889 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404064AR / Quantity **27.996,192 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) UACU3923797

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 SOLVAY CHEMICALS, Inc.
 3737 Buffalo Speedway, Suite 800
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**SOLVAY
CHEMICALS, Inc.**
CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer
 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA
Certificate recipient
 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834890 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

DENSE SODA ASH

Industrial origin GREEN RIVER, WY

 Batch number 10404064AR / Quantity **27.841,968 kg**

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) TCKU2013918

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 SOLVAY CHEMICALS, Inc.
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**SOLVAY
CHEMICALS, Inc.**
CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer

 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA

Certificate recipient

 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Batch number	10404061AR
Delivery note	72834891 000010	Order	5549896 000010
Shipping date	29.04.2021	Customer ref.	SA-032-21(749)
Packaging	Bulk	Transport ID	NYK CONSTELLATION

DENSE SODA ASH
Industrial origin GREEN RIVER, WY
Batch number 10404064AR / Quantity 6.600,000 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	
Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft ³	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As ₂ O ₃	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Industrial origin GREEN RIVER, WY
Batch number 10404061AR / Quantity 21.260,112 kg

Characteristics	Units	Value	Specification
Total alkalinity (Na ₂ CO ₃)	%	99,80	>= 99,70
Sodium oxide (Na ₂ O)	%	58,37	>= 58,31
Na ₂ SO ₄	%	0,00	<= 0,04
NaCl	%	0,03	<= 0,10
Loss on ignition	%	0,13	


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CERTIFICATE OF ANALYSIS

SOLVAY CHEMICALS, Inc.

Customer

 ZZ GLASS, INC.
 CALLE AQUILINO DE LA GUARDIA
 081601771 PANAMA
 PANAMA

Certificate recipient

 CARIBBEAN GLASS INDUSTRY S.A.
 KM 28 AUTOPISTA JUAN PABLO DUARTE
 PEDRO BRAND
 DOMINICAN REP.

Transport	4110523914	Order	5549896 000010
Delivery note	72834891 000010	Customer ref.	SA-032-21(749)
Shipping date	29.04.2021	Transport ID	NYK CONSTELLATION
Packaging	Bulk		

Insoluble Substances in water	%	0,03	<= 0,05
Iron (Fe)	ppm	1,3	<= 8,0
Bulk Density	lb/ft3	64,0	58,0 - 66,0
Heavy Metals as Pb	-	< 5 ppm	
As2O3	-	< 3 ppm	
Screen Analysis	-	% Retained	
US >=20 (850 Micron)	%	1,2	<= 3,0
US >=30 (600 Micron)	%	3,2	<= 12,0
US >=40 (425 Micron)	%	18,7	<= 35,0
US >=50 (300 Micron)	%	56,9	
US >=70 (212 Micron)	%	85,7	
US >=100 (150 Micron)	%	95,8	>= 84,0
US >=140 (106 Micron)	%	98,7	
US >=200 (75 Micron)	%	99,5	>= 98,0
US <200 (75 Micron)	%	0,3	

Container (s) DRYU2156607

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