

Haahr & Co. varenr.	Declaration of Conformity for materials and articles made of glass, porcelain, ceramic and enamel Version nr. 2, 10.09.2013, DL	Page: 1 of 3 Gældende for Haahr & Co. A/S Ibrugtningsdato/ Godkendt af 08/10/2020
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1	Haahr & Co. A/S Mådevej 20 6700 Esbjerg Tlf. +45 75 12 80 00 Fax +45 75 12 27 19 http://www.haahr-co.dk
2	Identification of the product: • Name • Item No. • Description • Material • Photo Haahr list 290 916

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3	<u>General EU compliance:</u> These articles comply with the requirements of Regulation 1935/2004-EC, and is produced and handled in accordance with the requirements of good manufacturing practice in Regulation 2023/2006-EC. <u>Compliance with specific EU rules:</u> These articles comply with the requirements of contagion of lead and cadmium in Directive 84/500-EEC <u>Compliance with Danish rules:</u> These articles comply with the requirements of contagion of lead and cadmium from ceramic and enameled objects and glassware, given the Ordinance on Food Contact Materials # 822 of 26 June 2013.
4	These articles are suitable for contact with all types of food at the expected and foreseeable use. These articles are intended for contact with food at temperatures up to _____ ° C for up to _____ hours Δ T 50° for annealing and Δ T 130° for tempered items These articles can tolerate dishwasher ☒ Yes ☐ No Representative samples of these, or similar articles, have been examined for compliance with the requirements of Section 3 and the articles in this lot are produced under similar conditions, using identical raw materials, from the same manufacturer. If the Danish Food Authorities so requests, Haahr & Co. A/S will provide the necessary background documentation.

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Mr Philippe Cazier
Arc France, product Quality Director

October 08th, 2020



ARC FRANCE
 Société par actions simplifiée
 Au capital de 34.954.386 €
 Siège social : France-ARQUES (62510)
 104 avenue du Général de Gaulle
 804 313 032 R.C.S. BOULOGNE-SUP-MER
 TVA FR 39 804 313 032

Supplier name - Signature

Date

On behalf of Haahr & Co. A/S



Signature

9-10-2020

Date

Vare nr.	EAN kode	Beskrivelse	ANNEALED	TEMPERED	(LEV. VARENR)	MATERIAL	DECORATED
5000090	26102168066	GLASSKÅL EMP Ø 6 CM		X	10011	SODO	NO TEMPERED
5000095	26102168172	GLASSKÅL EMP Ø 7 CM		X	10018	SODO	NO TEMPERED
5000100	26102972144	GLASSKÅL EMP Ø 9 CM		X	10040	SODO	NO TEMPERED
5000105	26102972151	GLASSKÅL EMP Ø 10,5 CM		X	10019	SODO	NO TEMPERED
5000110	26102972175	GLASSKÅL EMP Ø 12 CM		X	10000	SODO	NO TEMPERED
5000115	26102972182	GLASSKÅL EMP Ø 14 CM		X	10003	SODO	NO TEMPERED
5000120	26102972212	GLASSKÅL EMP Ø 17 CM		X	10027	SODO	NO TEMPERED
5000125	26102800058	GLASSKÅL EMP Ø 20 CM		X	10022	SODO	NO TEMPERED
5000130	26102800256	GLASSKÅL EMP Ø 23 CM		X	10021	SODO	NO TEMPERED
5000135	26102800164	GLASSKÅL EMP Ø 26 CM		X	09994	SODO	NO TEMPERED
5000140	26102800096	GLASSKÅL EMP Ø 29 CM		X	10029	SODO	NO TEMPERED
5000297	883314153583	ASSIET SOLEIL 14,5 CM.		X	J1368	SODO	NO TEMPERED
5000299	883314121513	TALLERKEN/FAD OVAL		X	E8007	SODO	NO TEMPERED
5000356	883314343373	VANDGLAS CONCEPTO 25 CL	X		H5661	SODO	NO ANNEALED
5000380	26102284384	GLASKANDE TIVOLI 2,3 L	X		28438	SODO	NO ANNEALED
5000382	26102703618	GLASKANDE GLAS QUADRO 1,1 L	X		70361	SODO	NO ANNEALED
5000395	26102363416	GLASKANDE ARC BROCC 0,5 L	X		36341	SODO	NO ANNEALED
5000400	26102363584	GLASKANDE ARC BROCC 1,0 L	X		36358	SODO	NO ANNEALED
5000402	26102363669	GLASKANDE ARC BROCC 1,3 L	X		36366	SODO	NO ANNEALED
5000403	26102530610	GLASKANDE ARC BROCC 1,6 L	X		53061	SODO	NO ANNEALED
5000455	26102251102	VINKARAFFEL ARC 0,5 L ARC	X		C0197	SODO	NO ANNEALED
5000456	26102330401	VINKARAFFEL ARC 0,5L LUMINARC	X		33040	SODO	NO ANNEALED
5000460	26102396094	VINKARAFFEL ARC 1,0 L ARC	X		C0199	SODO	NO ANNEALED
5000555	26102009895	ØLKRUS BRITANIA 57 CL.	X		00989	SODO	NO ANNEALED
5000560	26102600269	NORVEGE GLAS 16 CL		X	60026	SODO	NO TEMPERED
5000562	26102600245	NORVEGE GLAS 20 CL		X	60024	SODO	NO TEMPERED
5000564	26102616970	NORVEGE GLAS 25 CL		X	61697	SODO	NO TEMPERED
5000567	0883314560893	GLAS BROADWAY HB 28 CL	x		L7256	SODO CLEAR	NO ANNEALED
5000568	0883314560879	GLAS BROADWAY OF 30 CL	x		L7254	SODO CLEAR	NO ANNEALED
5000570	10026102043612	ØLKRUS HAWORTH 28 CL	X		04361	SODO	NO ANNEALED
5000572	10026102131920	ØLKRUS HAWORTH 57 CL	X		13192	SODO	NO ANNEALED
5000580	26102089446	CAMPUS 18 CL		X	13823	SODO	NO TEMPERED

5000582	26102089583	CAMPUS 22 CL		X	13831	SODO	NO	TEMPERED
5000584	26102089538	CAMPUS 29 CL		X	13849	SODO	NO	TEMPERED
5000600	883314349962	VANDGLAS STACK UP 21 CL. OB		X	H5647	SODO	NO	TEMPERED
5000602	883314349948	VANDGLAS STACK UP 32 CL. OB		X	H5646	SODO	NO	TEMPERED
5000604	883314345117	VANDGLAS STACK UP 29 CL. HB		X	H7764	SODO	NO	TEMPERED
5000606	883314345100	VANDGLAS STACK UP 35 CL. HB		X	H7763	SODO	NO	TEMPERED
5000608	883314349931	VANDGLAS STACK UP 40 CL. HB		X	H5642	SODO	NO	TEMPERED
5000610	883314349924	VANDGLAS STACK UP 47 CL. HB		X	H5641	SODO	NO	TEMPERED
5000694	26102259528	CABERNET COCKTAIL 30 CL.	X		62449	SODO	NO	ANNEALED + LV
5000696	26102259894	CABERNET CHAMPAGNE 16 CL	X	X RIM	48024	SODO	NO	ANNEALED + TEMPERED Buvant
5000697	26102259818	CABERNET CHAMPAGNE 24 CL	X	X RIM	D0796	SODO	NO	ANNEALED + Trempe Buvant + l
5000698	26102554555	VANDGLAS CONIQUE 20 CL		X	P1985	SODO	NO	TEMPERED
5000702	26102469798	CABERNET TULIPE 25 CL	X	X RIM	46978	SODO	NO	ANNEALED + Trempe Buvant + l
5000704	26102259207	CABERNET TULIPE 35 CL	X	X RIM	46973	SODO	NO	ANNEALED + Trempe Buvant + l
5000705	26102259191	CABERNET TULIPE 47 CL	X	X RIM	46961	SODO	NO	ANNEALED + Trempe Buvant + l
5000707	26102259078	CABERNET TULIPE 58 CL	X	X RIM	46888	SODO	NO	ANNEALED + Trempe Buvant + l
5000708	26102900635	CABERNET TULIPE 75 CL	X	X RIM	D0795	SODO	NO	ANNEALED + Trempe Buvant + l
5000712	26102149539	SNAPSGLAS GIN 3 CL.	X		00016	SODO	NO	ANNEALED
5000713	26102047613	GRANITY GLAS 4,5 CL		X	04755	SODO	NO	TEMPERED
5000714	883314398465	GRANITY GLAS 16 CL. OB		X	J2610	SODO	NO	TEMPERED
5000715	883314398458	GRANITY GLAS 20 CL. OB		X	J2611	SODO	NO	TEMPERED
5000716	883314398489	GRANITY GLAS 27 CL.		X	J2614	SODO	NO	TEMPERED
5000718	883314398441	GRANITY GLAS 35 CL.		X	J2607	SODO	NO	TEMPERED
5000720	883314398403	GRANITY GLAS 46 CL. HB		X	J2601	SODO	NO	TEMPERED
5000721	26102078211	ISLANDE DRINKSGLAS 6 CL.	X		40375	SODO	NO	ANNEALED
5000722	26102078198	ISLANDE DRINKSGLAS 16 CL HB	X		40367	SODO	NO	ANNEALED
5000723	26102078358	GLAS M/HANK ISLANDE 5,5 CL	X		72388	SODO	NO	ANNEALED
5000724	26102078297	ISLANDE DRINKGLAS 20 CL OB	X		J3312	SODO	NO	ANNEALED
5000725	26102078167	ISLANDE DRINKSGLAS 22 CL HB	X		40359	SODO	NO	ANNEALED
5000726	26102078068	ISLANDE DRINKSGLAS 29 CL HB	X		40342	SODO	NO	ANNEALED
5000728	26102078068	ISLANDE DRINKSGLAS 31 CL HB	X		J4227	SODO	NO	ANNEALED
5000732	26102124062	ISLANDE DRINKSGLAS 33 CL HB	X		J3310	SODO	NO	ANNEALED
5000733	26102078327	ISLANDE DRINKSGLAS 30 CL OB	X		J4239	SODO	NO	ANNEALED

5000734	26102077979	ISLANDE DRINKSGLAS 36 CL HB	X		J4226	SODO	NO	ANNEALED
5000739	26102071250	ØLGLAS CERVOISE 32 CL	X		07134	SODO	NO	ANNEALED
5000740	26102071243	ØLGLAS CERVOISE 38 CL	X		07132	SODO	NO	ANNEALED
5000741	26102071236	ØLGLAS CERVOISE 50 CL ARC	X		07131	SODO	NO	ANNEALED
5000742	26102249482	ØLGLAS CERVOISE 62 CL	X		24941	SODO	NO	ANNEALED
5000750	26102863268	ØLGLAS NONIC 34 CL		X	43740	SODO	NO	TEMPERED
5000757	26102863251	ØLGLAS NONIC 28 CL		X	43716	SODO	NO	TEMPERED
5000758	26102346778	ØLGLAS NONIC 57 CL		X	49357	SODO	NO	TEMPERED
5000759	40026102246687	ØLGLAS WILLI BECHER 40 CL	X		24668	SODO	NO	ANNEALED
5000761	40026102246700	ØLGLAS WILLI BECHER 33 CL	X		24670	SODO	NO	ANNEALED
5000763	26102716946	BALLON HVIDVIN 15 CL.	X		11940	SODO	NO	ANNEALED
5000767	26102256275	CHAMPAGNEGLAS BALLON 17 CL	X		25626	SODO	NO	ANNEALED
5000769	26102761700	BALLON 9,5 CL	X		08876	SODO	NO	ANNEALED
5000771	26102716922	RØDVINGSLAS BALLON 25 CL	X		11937	SODO	NO	ANNEALED
5000772	26102716939	HVIDVINGSLAS BALLON 19 CL	X		11052	SODO	NO	ANNEALED
5000777	26102066126	COGNACGLAS DEGUSTATION 15 CL	X		01476	SODO	NO	ANNEALED
5000778	26102218839	BITTERGLAS HOT SHOT 3,4 CL	X		21554	SODO	NO	ANNEALED
5000780	26102504635	RØDVINGLAS SAVOIE 35 CL	X		50463	SODO	NO	ANNEALED
5000782	26102761403	RØDVINGLAS SAVOIE 24 CL	X		27778	SODO	NO	ANNEALED
5000784	26102760314	HVIDVINGLAS SAVOIE 19 CL	X		27786	SODO	NO	ANNEALED
5000788	26102064542	COGNACGLAS DEGUSTATION 25 CL.	X		02458	SODO	NO	ANNEALED
5000790	26102761410	CHAMPAGNEGLAS SAVOIE 17 CL.	X		27810	SODO	NO	ANNEALED
5000802	26102763148	ELEGANCE PORTVIN 6,5 CL	X		37264	SODO	NO	ANNEALED
5000804	26102763308	ELEGANCE HVIDVIN 12 CL	X		37439	SODO	NO	ANNEALED
5000806	26102763124	ELEGANCE HVIDVIN 14,5 CL	X		37249	SODO	NO	ANNEALED
5000807	26102763292	ELEGANCE CHAMPAGNEBOWLE 16 CL.	X		37652	SODO	NO	ANNEALED
5000808	26102763315	ELEGANCE CHAMPAGNEGLAS 17 CL	X		37298	SODO	NO	ANNEALED
5000810	26102763131	ELEGANCE RØDVIN 19 CL	X		37413	SODO	NO	ANNEALED
5000812	26102763285	ELEGANCE RØDVIN 24,5CL	X		37405	SODO	NO	ANNEALED
5000814	26102763278	ELEGANCE ØL/RØDVINGSLAS 31 CL	X		50143	SODO	NO	ANNEALED
5000853	0883314661385	VINGLAS VINA JULIETTE 50 CL	X		N5993	SODO CLEAR	NO	ANNEALED
5000854	0883314661408	VINGLAS VINA JULIETTE 30 CL	X		N5163	SODO CLEAR	NO	ANNEALED
5000856	883314661392	VINGLAS VINA JULIETTE 40 CL	X		N4907	SODO CLEAR	NO	ANNEALED

5000860	26102259689	CABERNET COCKTAIL 21 CL	X		58001	SODO	NO	ANNEALED + LV
5000876	26102306482	LONGCHAMP CHAMPAGNE 14 CL	X		G5189	SODO	NO	ANNEALED + LV
5000890	26102421734	ELEGANCE KARAFFEL 1 L.	X		42173	SODO	NO	ANNEALED
5000926	26102900635	OPEN UP UNIVERSAL 40 CL.	X	X RIM	D1458	SODO	NO	ANNEALED + Trempe Buvant + I
5000927	26102900451	OPEN UP TANNIC 55 CL.	X	X RIM	E9041	SODO	NO	ANNEALED + Trempe Buvant + I
5000928	26102880623	OPEN UP EFFERVESCENT 20 CL.	X	X RIM	U1051	SODO	NO	ANNEALED + Trempe Buvant + I
5000929	26102900246	OPEN UP ROUND 37 CL.	X	X RIM	E9039	SODO	NO	ANNEALED + Trempe Buvant + I
5000930	26102900840	OPEN UP SOFT 47 CL	X	X RIM	U1012	SODO	NO	ANNEALED + Trempe Buvant + I
5000931	883314028461	OPEN UP VANDGLAS 38 CL.	X		U1033	SODO	NO	ANNEALED + LV
5000968	26102376850	IRISH COFFEE GLAS M/HANK 24 CL		X	37684	SODO	NO	TEMPERED
5001000	26102439210	PORTIONSGLAS SORBET COUPE 21CL	X		50998	SODO	NO	ANNEALED
5001113	26102306451	LONGCHAMP VIN 25 CL	X		G5186	SODO	NO	ANNEALED
5001128	26102252833	SKÅL COCOON 6 CM.		X	41884	SODO	NO	TEMPERED
5001130	26102418826	SKÅL COCOON 12 CM.		X	41882	SODO	NO	TEMPERED
5001132	26102418796	SKÅL COCOON 18 CM.		X	41879	SODO	NO	TEMPERED
5001134	883314164459	SKÅL COCOON 24 CM.		X	G1698	SODO	NO	TEMPERED
5001144	26102259511	PRIMARY TUMBLER 27 CL	X		G0036	SODO	NO	RECUIT + LV
5001145	26102259610	PRIMARY TUMBLER 36 CL	X		G3322	SODO	NO	RECUIT + LV
5001165	26102260005	CABERNET CHAMPAGNESKÅL 30 CL	X	X RIM	D6140	SODO	NO	RECUIT + Trempe Buvant + LV
5001166	883314132083	CABERNET VIN JEUNES 35 CL	X	X RIM	E2788	SODO	NO	RECUIT + Trempe Buvant + LV
5001167	883314132090	CABERNET VIN JEUNES 47 CL	X	X RIM	E2790	SODO	NO	RECUIT + Trempe Buvant + LV
5001210	26102306468	LONGCHAMP VINGLAS 17 CL	X		G5214	SODO	NO	RECUIT + LV
5001217	26102589465	LONGCHAMP VANDGLAS 28 CL	X		G5157	SODO	NO	ANNEALED
5001222	26102595213	LONGCHAMP VANDGLAS 23 CL	X		G5225	SODO	NO	ANNEALED
5001310	26102751466	CITRONPRESSER HÆRDET GLAS	X		75146	SODO	NO	ANNEALED
5002010	26102214541	SALT & PEBERBØSSE GLAS	X		00633	SODO	NO	ANNEALED
5002482	26102780459	BOLCHEGLAS POT CLUB 0,28LSMALL	X		78045	SODO	NO	ANNEALED
5002484	26102582701	BOLCHEGLAS POT CLUB 0,5 L	X		11266	SODO	NO	ANNEALED
5002486	26102635858	BOLCHEGLAS POT CLUB 0,75 L	X		11972	SODO	NO	ANNEALED
5002488	26102569153	BOLCHEGLAS POT CLUB 1,0 L	X		12404	SODO	NO	ANNEALED
5002489	26102713662	SYLTEGLAS, POT CONFITURE	X		71989	SODO	NO	ANNEALED
5002490	26102582718	BOLCHEGLAS POT CLUB 1,5 L	X		12252	SODO	NO	ANNEALED
5002492	26102348185	BOLCHEGLAS POT CLUB 1,5 L BIG	X		34818	SODO	NO	ANNEALED

5002493	26102348192	BOLCHEGLAS POT CLUB 2,00 L BIG	X		34819	SODO	NO	ANNEALED
5002561	883314508253	SUBLYM VINGLAS 25 CL	x	X RIM	L2609	SODO	NO	ANNEALED
5002562	883314508239	SUBLYM VINGLAS 35 CL.	x	X RIM	L2761	SODO	NO	ANNEALED
5002564	883314508185	SUBLYM VINGLAS 55 CL	x	X RIM	L2758	SODO	NO	ANNEALED
5010510	26102252796	KRUS 29 CL		X	D6880	SODO	NO	TEMPERED
5010516	26102521083	DESSERTTALLERKEN 19,5		X	H4124	SODO	NO	TEMPERED
5010518	26102286838	TALLERKEN FLAD 24,5 CM		X	D6890	SODO	NO	TEMPERED
5010520	26102285954	TALLERKEN DYB 22,5 CM		X	D6889	SODO	NO	TEMPERED
5010521	26102519172	OVALT FAD 35 CM		X	E9667	SODO	NO	TEMPERED
5010528	26102246443	OVERKOP 13 CL Ø: 7,0 H: 5,8		X	22795	SODO	NO	TEMPERED
5010530	26102246498	OVERKOP 19 CL Ø: 7,8 H: 6,5		X	22837	SODO	NO	TEMPERED
5010535	26102509579	UNDERKOP 14 CM		X	22720	SODO	NO	TEMPERED
5010540	26102511275	TALLERKEN FLAD 15,5 CM		X	22506	SODO	NO	TEMPERED
5010545	26102511428	DESSERTTALLERKEN 19,5CM		X	22530	SODO	NO	TEMPERED
5010550	26102511473	TALLERKEN DYB 22,6 CM		X	22514	SODO	NO	TEMPERED
5010554	26102511626	TALLERKEN FLAD 23,5 CM.		X	22522	SODO	NO	TEMPERED
5010555	26102511602	FROKOSTTALLERKEN 22,5CM		X	29337	SODO	NO	TEMPERED
5010556	26102511640	TALLERKEN FLAD 25 CM		X	24742	SODO	NO	TEMPERED
5010557	26102510810	YMERSKÅL COUPELLE 16 CL		X	25293	SODO	NO	TEMPERED
5010558	26102491485	STEAKTALLERKEN OVAL 30 CM		X	49145	SODO	NO	TEMPERED
5010559	26102567210	KRUS 25 CL		X	36140	SODO	NO	TEMPERED
5010560	26102567197	KRUS 29 CL STABELBAR		X	18316	SODO	NO	TEMPERED
5001296	26102863534	VANDGLAS SALTO BLUE 32 CL	x		C9688	SODO	YES	ANNEALED
5001299	26102863510	VANDGLAS SALTO BLUE 35 CL	x		C9687	SODO	YES	ANNEALED
5001295	26102966945	VANDGLAS SALTO KLAR 32 CL	x		N5831	SODO	NO	ANNEALED +CRISTALLIN
5001298	26102966952	VANDGLAS SALTO KLAR 35 CL	x		N5812	SODO	NO	ANNEALED +SODO CLEAR



Kind of Standard :

ref : AIF/LABC/DOC/101 rev C

Reference :

AF/LABC/DOC/241
GED : LABC-FVT16-011B**GLASS DATA SHEET
CLEAR GLASS**

Date creation :

05/12/2016

Page :

1 sur 1

Last revision :

15/02/2018 (rev B)

Checked by

R. Delaval

Labo R&D chimie verre AF

Issued by : Ivan Litvinenko-Morel

Labo R&D chimie verre AF

Approved by

P. Cazier

Direction qualité AF

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Chemical Composition (Indicative average values in %)		Measurement method	Raw materials
element	expressed in oxides		
Si : 34	SiO ₂ : 72,7	Chemical analysis by X-ray fluorescence AI/LABC/MOPE/363	Sand
Na : 10	Na ₂ O : 13,5		Sodium Carbonate
Ca : 7,5	CaO : 10,5		Calcium carbonate
Al : 0,8	Al ₂ O ₃ : 1,5		Alumina / Feldspar
Mg : 0,9	MgO : 1,5		Dolomite
Others < 0,3	Others < 0,3		
O : 46,5		calculation	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Color (Lab* system)	L* ≥ 98 C* ≤ 0.5 Iron content ≤ 200 mg/kg (expressed in Fe ₂ O ₃)	Internal transmission measurement with a spectrophotometer at 2 cm in D65 10°
Average thermal expansion coefficient (10 ⁻⁷ K ⁻¹) ± 3	90	ISO 7991 between 20°C and 300°C
Transformation temperature (T _g) in °C ± 10	550	ISO 7884
Softening temperature (Pr) in °C ± 10	600	Dilatometer AI/LABC/MOPE/67
Density	2.50	Pycnometer
Refractive index	1.52	Refractometer AI/LABC/MOPE/443

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 3	ISO 719
Alkali resistance	A1	ISO 695

FUNCTIONAL USES

Use	Standard	Annealed	Tempered	ΔT 100
Dishwasher resistance	EN 12875-1 and 2	Yes	Yes	Yes
Thermal shock resistance	EN 1183	ΔT 50°C	ΔT 130°C	ΔT 100°C
Microwave oven	EN 15284	No	Yes	Yes
oven	EN 13834	No	No	No
Hot plate / flame / ceramic hob	EN 12983-2	No	No	No



Kind of Standard :	ref : AIF/LABC/DOC/101 rev C	Reference :	AF/LABC/DOC/214 GED : LABC-FTV18-009B
GLASS DATA SHEET SODALIME GLASS		Date creation :	09/11/2012
Last revision :	28/09/2018 (rev E)	Page :	1 sur 1
Issued by : Ivan Litvinenko-Morel	Labo R&D chimie verre AI	Checked by Approved by	R. Delaval P. Cazier Labo R&D chimie verre AI Direction qualité

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Chemical Composition (Indicative average values in %)		Measurement method	Raw materials
element	expressed in oxides		
Si : 34	SiO ₂ : 72,75	Chemical analysis by X-ray fluorescence AI/LABC/MOPE/363	Sand
Na : 9,9	Na ₂ O : 13,35		Sodium Carbonate
Ca : 7,7	CaO : 10,8		Calcium carbonate
Al : 0,8	Al ₂ O ₃ : 1,5		Alumina / Feldspar
Mg : 0,8	MgO : 1,4		Dolomite
Others < 0,2	Others < 0,2		
O : 46,6		calculation	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Color (Lab* system)	L*min = 94	Total transmission measurement with a spectrophotometer at 1cm in C 2° according to CIE 15:2004
Average thermal expansion coefficient (10 ⁻⁷ K ⁻¹) ± 3	88	ISO 7991 between 20°C and 300°C
Transformation temperature (Tg) in °C ± 10	565	ISO7884 Dilatometer AI/LABC/MOPE/67
Softening temperature (Pr) in °C ± 10	605	
Density	2.50	Pycnometer AI/LABC/MOPE/62
Refractive index	1.52	Refractometer AI/LABC/MOPE/443

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 3	ISO 719
Alkali resistance	A1	ISO 695

FUNCTIONAL USES

Use	Standard	Annealed	Tempered	ΔT 100
Dishwasher resistance	EN 12875-1 and 2	Yes	Yes	Yes
Thermal shock resistance	EN 1183	ΔT 50°C	ΔT 130°C	ΔT 100°C
Microwave oven	EN 15284	No	Yes	Yes
oven	EN 13834	No	No	No
Hot plate / flame / ceramic hob	EN 12983-2	No	No	No



Kind of Standard :

ref : AIF/LABC/DOC/101 rev C

Reference :

AF/LABC/DOC/244
GED : LABC-FTV17-002B**GLASS DATA SHEET
ZENIX**

Date creation :

09/11/2012

Page :

1 sur 1

Last revision :

15/02/2018 (rev C)

Checked by

R. Delaval

Labo R&D chimie verre AI

Issued by : Ivan Litvinenko-Morel

Labo R&D chimie verre AI

Approved by

P. Cazier

Direction qualité

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Chemical composition (Indicative average values in %)		Measurement method	Raw materials
elements	expressed in oxides		
Si : 33,7	SiO ₂ : 72	Analyse chimique par fluorescence X AI/LABC/MOPE/363	Sand
Na : 8,9	Na ₂ O : 12		Sodium carbonate
Ca : 1,4	CaO : 2		Calcium carbonate
Al : 4,2	Al ₂ O ₃ : 8		Alumina
Ba : 1,8	BaO : 2		Barium carbonate
F : 5	F ₂ : 5		Sodium fluosilicate
K : 1,2	K ₂ O : 1,5		Nepheline
Colorant : < 0,1	Colorant : < 0,1		
O : 43,7		Calculation	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Visual appreciation	Opaque "bone" color	Visual observation in a light box under normalized lighting
Average thermal expansion coefficient (10 ⁻⁷ K ⁻¹) ± 3	80	ISO 7991 between 20°C and 300°C
Transformation temperature (Tg) in °C ± 10	520	ISO 7884 Dilatometer AI/LABC/MOPE/67
Softening temperature (Pr) in °C ± 10	595	
Density	2.41	Pycnometer AI/LABC/MOPE/62
Refractive index	1.47	Refractometer AI/LABC/MOPE/443

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 3	ISO 719
Alkali resistance	A2	ISO 695

FUNCTIONAL USES

Use	Standard	Tempered
Dishwasher resistance	EN 12875-1 and 2	Yes
Resistance to thermal shock	EN 1183	ΔT 130°C or according to customer specifications
Microwave oven	EN 15284	Yes
Oven	EN 13834	No
Hot plate / flame / ceramic hob	EN 12983-2	No

ZENIX'S ASSETS



- Outstanding mechanical resistance
- Scratch resistance never reached before
- Premium Quality: both sides perfectly homogeneous
- Bone color: Elegant and natural. Subtle, warm color.





October 8, 2020

Customer : Haahr & Co. AS

Ref. : PC/yg

Object:

HAAHR list 290916 attached

We, ARC FRANCE, certify that these items are in conformity with
- Directive 10-2011 EEC on overall migration test of plastic material and articles intended to come into contacts with foodstuffs.

- ISO 7086 and directives EC 84/500 & 1935/2004 (traceability = pallet) and do not present any risk as well from the health as hygiene point of view.

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