

Haahr & Co. varenr. <i>Se bilag</i>	Declaration of Conformity for materials and articles made of glass, porcelain, ceramic and enamel Version nr. 1, 15.10.2012, DL	Page:1 of 3 Gældende for Haahr & Co. A/S Ibrugtagningsdato/ Godkendt af <i>17/9-13 - OL</i>
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1	<p>Haahr & Co. A/S Mådevej 20 6700 Esbjerg</p> <p>Tlf. +45 75 12 80 00 Fax +45 75 12 27 19</p> <p>http://www.haahr-co.dk</p>	
2	<p>Identification of the product:</p> <ul style="list-style-type: none"> • Name • Item No. • Description • Material • Photo 	<p>See AIF list attached</p>

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3	<p><u>General EU compliance:</u></p> <p>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.</p> <p><u>Compliance with specific EU rules:</u></p> <p>These articles comply with the requirements of contagion of lead and cadmium in Directive 84/500-EEC</p> <p><u>Compliance with Danish rules:</u></p> <p>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.</p>
4	<p>These articles are suitable for contact with all types of food at the expected and foreseeable use.</p> <p>These articles are intended for contact with food at temperatures up to $\Delta T 50^{\circ}C$ for annealing items and $\Delta T 130^{\circ}C$ for tempered items up to _____ hours</p> <p>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.</p> <p>If the Danish Food Authorities so requests, Haahr & Co. A/S will provide the necessary background documentation.</p>

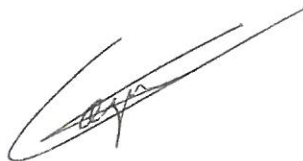
ARC INTERNATIONAL FRANCE
Philippe CAZIER, AIF quality director

Arques, September 13, 2013

Supplier name - Signature

Date

Arc International France
Société par Actions simplifiée
Au Capital de 61 368 082 Euros
RCS Boulogne-sur-Mer 504 313 032
104 Avenue du Général De Gaulle
62510 ARQUES - France



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On behalf of Haahr & Co. A/S

HAAHR & CO. ISENKRAM A/S
 MADEVEJ 20 - 6700 ESBJERG
 TLF: 75 12 80 00 - FAX: 75 12 27 19

D. Zangherle

Signature

17/9-2013

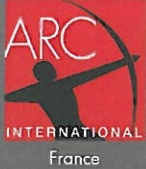
Date

Nummer	EAN Kode	Beskrivelse	Leverandørnr.	REF COMM AIF	MATIERE	DECORE
5000090	26102168066	GLASSKÅL EMP Ø 6 CM	53332	10011	SODO	N
5000095	26102168172	GLASSKÅL EMP Ø 7 CM	53332	10018	SODO	N
5000100	26102972144	GLASSKÅL EMP Ø 9 CM	53332	10040	SODO	N
5000105	26102972151	GLASSKÅL EMP Ø 10,5 CM	53332	10019	SODO	N
5000110	26102972175	GLASSKÅL EMP Ø 12 CM	53332	10000	SODO	N
5000115	26102972182	GLASSKÅL EMP Ø 14 CM	53332	10003	SODO	N
5000120	26102972212	GLASSKÅL EMP Ø 17 CM	53332	10027	SODO	N
5000125	26102800058	GLASSKÅL EMP Ø 20 CM	53332	10022	SODO	N
5000130	26102800256	GLASSKÅL EMP Ø 23 CM	53332	10021	SODO	N
5000135	26102800164	GLASSKÅL EMP Ø 26 CM	53332	9994	SODO	N
5000140	26102800096	GLASSKÅL EMP Ø 29 CM	53332	10029	SODO	N
5000297	883314153583	ASSIET SOLEIL 14,5 CM.	53332	J1368	SODO	N
5000320	26102273647	KANDE FLEUR 1,3 L	53332	6919	SODO	N
5000362	26102523490	KANDE CLASSIQUE 1,3 L	53332	52349	SODO	N
5000366	26102552391	KANDE PICHET 1,3 L.	53332	C0214	SODO	N
5000368	26102593196	KANDE PICHET 0,5 L	53332	C0215	SODO	N
5000380	26102284384	GLASKANDE TIVOLI 2,3 L	53332	28438	SODO	N
5000382	26102703618	GLASKANDE GLAS QUADRO 1,1 L	53332	70361	SODO	N
5000395	26102363416	GLASKANDE ARC BROC 0,5 L	53332	36341	SODO	N
5000400	26102363584	GLASKANDE ARC BROC 1,0 L	53332	36358	SODO	N
5000402	26102363669	GLASKANDE ARC BROC 1,3 L	53332	36366	SODO	N
5000403	26102530610	GLASKANDE ARC BROC 1,6 L	53332	53061	SODO	N
5000455	26102251102	VINKARAFFEL ARC 0,5 L ARC	53332	C0197	SODO	N
5000456	26102330401	VINKARAFFEL ARC 0,5L LUMINARC	53332	33040	SODO	N
5000460	26102396094	VINKARAFFEL ARC 1,0 L ARC	53332	C0199	SODO	N
5000461	26102396094	VINKARAFFEL ARC 1 L LUMINARC	53332	10291	SODO	N
5000555	26102009895	ØLKRUS BRITANIA 57 CL.	53332	989	SODO	N
5000560	26102600269	NORVEGE GLAS 16 CL	53332	60026	SODO	N
5000562	26102600245	NORVEGE GLAS 20 CL	53332	60024	SODO	N
5000564	26102616970	NORVEGE GLAS 25 CL	53332	61697	SODO	N
5000570	10026102043612	ØLKRUS HAWORTH 28 CL	53332	4361	SODO	N
5000572	10026102131920	ØLKRUS HAWORTH 57 CL	53332	13192	SODO	N
5000580	26102089446	CAMPUS 18 CL	53332	13823	SODO	N
5000582	26102089583	CAMPUS 22 CL	53332	13831	SODO	N
5000584	26102089538	CAMPUS 29 CL	53332	13849	SODO	N
5000600	883314349962	VANDGLAS STACK UP 21 CL. OB	53332	H5647	SODO	N
5000602	883314349948	VANDGLAS STACK UP 32 CL. OB	53332	H5646	SODO	N
5000604	883314345117	VANDGLAS STACK UP 29 CL. HB	53332	H7764	SODO	N
5000606	883314345100	VANDGLAS STACK UP 35 CL. HB	53332	H7763	SODO	N
5000608	883314349931	VANDGLAS STACK UP 40 CL. HB	53332	H5642	SODO	N
5000610	883314349924	VANDGLAS STACK UP 47 CL. HB	53332	H5641	SODO	N
5000694	26102259528	CABERNET COCKTAIL 30 CL.	53332	62449	SODO	N
5000696	26102259894	CABERNET CHAMPAGNE 16 CL	53332	48024	SODO	N
5000697	26102259818	CABERNET CHAMPAGNE 24 CL	53332	D0796	SODO	N
5000702	26102469798	CABERNET TULIPE 25 CL	53332	46978	SODO	N
5000704	26102259207	CABERNET TULIPE 35 CL	53332	46973	SODO	N
5000705	26102259191	CABERNET TULIPE 47 CL	53332	46961	SODO	N
5000707	26102259078	CABERNET TULIPE 58 CL	53332	46888	SODO	N
5000708	26102900635	CABERNET TULIPE 75 CL	53332	D0795	SODO	N
5000710	26102259412	CABERNET TULIPE 19 CL	53332	53468	SODO	N
5000712	26102149539	SNAPSGLAS GIN 3 CL.	53332	16	SODO	N
5000713	26102047613	GRANITY GLAS 4,5 CL	53332	4755	SODO	N
5000714	883314398465	GRANITY GLAS 16 CL. OB	53332	J2610	SODO	N
5000715	883314398458	GRANITY GLAS 20 CL. OB	53332	J2611	SODO	N
5000716	883314398489	GRANITY GLAS 27 CL.	53332	J2614	SODO	N
5000717	883314398427	GRANITY GLAS 31 CL. HB	53332	J2605	SODO	N
5000718	883314398441	GRANITY GLAS 35 CL.	53332	J2607	SODO	N
5000719	883314398410	GRANITY GLAS 42 CL. HB	53332	J2603	SODO	N
5000720	883314398403	GRANITY GLAS 46 CL. HB	53332	J2601	SODO	N
5000721	26102078211	ISLANDE DRINKSGLAS 6 CL.	53332	40375	SODO	N
5000722	26102078198	ISLANDE DRINKSGLAS 16 CL HB	53332	40367	SODO	N
5000723	26102078358	GLAS M/HANK ISLANDE 5,5 CL	53332	72388	SODO	N

5000724	26102078297	ISLANDE DRINKGLAS 20 CL OB	53332	J3312	SODO	N
5000725	26102078167	ISLANDE DRINKSGLAS 22 CL HB	53332	40359	SODO	N
5000726	26102078068	ISLANDE DRINKSGLAS 29 CL HB	53332	40342	SODO	N
5000728	26102078068	ISLANDE DRINKSGLAS 31 CL HB	53332	J4227	SODO	N
5000732	26102124062	ISLANDE DRINKSGLAS 33 CL HB	53332	J3310	SODO	N
5000733		ISLANDE DRINKSGLAS 30 CL OB	53332	J4239	SODO	N
5000734	26102077979	ISLANDE DRINKSGLAS 36 CL HB	53332	J4226	SODO	N
5000739	26102071250	ØLGLAS CERVOISE 32 CL	53332	7134	SODO	N
5000740	26102071243	ØLGLAS CERVOISE 38 CL	53332	7132	SODO	N
5000741	26102071236	ØLGLAS CERVOISE 50 CL ARC	53332	7131	SODO	N
5000742	26102249482	ØLGLAS CERVOISE 62 CL	53332	24941	SODO	N
5000743	883314138832	ØLGLAS CERVOISE 50 CL	53332	E9342	SODO	N
5000748	883314141962	ØLGLAS WILLI BECHER 48 CL	53332	E9538	SODO	N
5000750	26102863268	ØLGLAS NONIC 34 CL	53332	43740	SODO	N
5000757	26102863251	ØLGLAS NONIC 28 CL	53332	43716	SODO	N
5000758	26102346778	ØLGLAS NONIC 57 CL	53332	49357	SODO	N
5000759	40026102246687	ØLGLAS WILLI BECHER 40 CL	53332	24668	SODO	N
5000760	40026102246694	ØLGLAS WILLI BECHER 63 CL	53332	24669	SODO	N
5000761	40026102246700	ØLGLAS WILLI BECHER 33 CL	53332	24670	SODO	N
5000763	26102716946	BALLON HVIDVIN 15 CL.	53332	11940	SODO	N
5000767	26102256275	CHAMPAGNEGLAS BALLON 17 CL	53332	25626	SODO	N
5000769	26102761700	BALLON 9,5 CL	53332	8876	SODO	N
5000771	26102716922	RØDVINGSLAS BALLON 25 CL	53332	11937	SODO	N
5000772	26102716939	HVIDVINGSLAS BALLON 19 CL	53332	11052	SODO	N
5000776	883314138726	BITTERGLAS HOT SHOT 3,4 CL	53332	E9331	SODO	N
5000777	26102066126	COGNACGLAS DEGUSTATION 15 CL	53332	1476	SODO	N
5000778	26102218839	BITTERGLAS HOT SHOT 3,4 CL	53332	21554	SODO	N
5000780	26102504635	RØDVINGLAS SAVOIE 35 CL	53332	50463	SODO	N
5000782	26102761403	RØDVINGLAS SAVOIE 24 CL	53332	27778	SODO	N
5000784	26102760314	HVIDVINGLAS SAVOIE 19 CL	53332	27786	SODO	N
5000787	883314109931	COGNACGLAS OMEGA 72 CL	53332	E7086	SODO	N
5000788	26102064542	COGNACGLAS DEGUSTATION 25 CL.	53332	2458	SODO	N
5000789	26102626658	COGNACGLAS DEGUSTATION 41 CL.	53332	62664	SODO	N
5000790	26102761410	CHAMPAGNEGLAS SAVOIE 17 CL.	53332	27810	SODO	N
5000795	26102258880	VANDGLAS LINELY 33 CL. HB	53332	U1540	SODO	N
5000796	26102258897	VANDGLAS LINELY 30 CL.	53332	U1533	SODO	N
5000797	26102259825	VINGLAS VERRE À PIED LYRE 38CL	53332	D1292	SODO	N
5000798	883314138788	COGNACGLAS DEGUSTATION 25 CL.	53332	E9337	SODO	N
5000799	883314138771	COGNACGLAS DEGUSTATION 41 CL.	53332	E9336	SODO	N
5000802	26102763148	ELEGANCE PORTVIN 6,5 CL	53332	37264	SODO	N
5000804	26102763308	ELEGANCE HVIDVIN 12 CL	53332	37439	SODO	N
5000806	26102763124	ELEGANCE HVIDVIN 14,5 CL	53332	37249	SODO	N
5000807	26102763292	ELEGANCE CHAMPAGNEBOWLE 16 CL.	53332	37652	SODO	N
5000808	26102763315	ELEGANCE CHAMPAGNEGLAS 17 CL	53332	37298	SODO	N
5000810	26102763131	ELEGANCE RØDVIN 19 CL	53332	37413	SODO	N
5000812	26102763285	ELEGANCE RØDVIN 24,5CL	53332	37405	SODO	N
5000814	26102763278	ELEGANCE ØL/RØDVINGSLAS 31 CL	53332	50143	SODO	N
5000850	40026102123797	SCOTLAND GLAS 17 CL.	53332	12379	SODO	N
5000860	26102259689	CABERNET COCKTAIL 21 CL	53332	58001	SODO	N
5000861	26102468746	VIN DU RHIN 15,5 CL.	53332	2448	SODO	N
5000862	883314018219	HAWAII COCKTAIL 44CL	53332	E0530	SODO	N
5000864	26102259535	COCKTAIL MARGARITA 44 CL	53332	62447	SODO	N
5000866	883314289978	NEW AMERICA 30 CL. OB	53332	H1981	SODO	N
5000867	883314289954	NEW AMERICA 40 CL. OB	53332	H1984	SODO	N
5000876	26102306482	LONGCHAMP CHAMPAGNE 14 CL	53332	G5189	SODO	N
5000890	26102421734	ELEGANCE KARAFFEL 1 L.	53332	42173	SODO	N
5000892	26102763322	ELEGANCE CHAMPAGNE 13 CL	53332	56416	SODO	N
5000910	26102245293	SIGNATURE RØDVIN 35CL.	53332	24521	SODO	N
5000911	26102245163	SIGNATURE RØDVIN 25CL.	53332	24414	SODO	N
5000912	26102243015	SIGNATURE HVIDVIN 19 CL.	53332	24252	SODO	N
5000913	26102245200	SIGNATURE CHAMPAGNE 17 CL	53332	54518	SODO	N
5000925	26102900888	OPEN UP SWEET 27 CL.	53332	D1481	SODO	N
5000926	26102900635	OPEN UP UNIVERSAL 40 CL.	53332	D1458	SODO	N

5000927	26102900451	OPEN UP TANNIC 55 CL.	53332	E9041	SODO	N
5000928	26102880623	OPEN UP EFFERVESCENT 20 CL.	53332	U1051	SODO	N
5000929	26102900246	OPEN UP ROUND 37 CL.	53332	E9039	SODO	N
5000930	26102900840	OPEN UP SOFT 47 CL	53332	U1012	SODO	N
5000931	883314028461	OPEN UP VANDGLAS 38 CL.	53332	U1033	SODO	N
5000968	26102376850	IRISH COFFEE GLAS M/HANK 24 CL	53332	37684	SODO	N
5000970	26102579695	IRISH COFFEE GLAS M/STREG 24CL	53332	57966	SODO	N
5000980	26102432921	PORTIONSGLAS GLACE 21 CL	53332	26671	SODO	N
5000990	883314291193	GLASSKÅL BANANA SPLIT	53332	H2149	SODO	N
5001000	26102439210	PORTIONSGLAS SORBET COUPE 21CL	53332	50998	SODO	N
5001005	26102432938	PORTIONSGLAS SORBET COUPE 38CL	53332	43121	SODO	N
5001113	26102306451	LONGCHAMP VIN 25 CL	53332	G5186	SODO	N
5001128	26102252833	SKÅL COCOON 6 CM.	53332	41884	SODO	N
5001130	26102418826	SKÅL COCOON 12 CM.	53332	41882	SODO	N
5001131	26102418413	SKÅL COCOON 15 CM.	53332	41841	SODO	N
5001132	26102418796	SKÅL COCOON 18 CM.	53332	41879	SODO	N
5001133	26102418772	SKÅL COCOON 21 CM.	53332	41877	SODO	N
5001134	883314164459	SKÅL COCOON 24 CM.	53332	G1698	SODO	N
5001135	883314160697	SKÅL COCOON 28 CM.	53332	G1357	SODO	N
5001144	26102259511	PRIMARY TUMBLER 27 CL	53332	G0036	SODO	N
5001145	26102259610	PRIMARY TUMBLER 36 CL	53332	G3322	SODO	N
5001165	26102260005	CABERNET CHAMPAGNESKÅL 30 CL	53332	D6140	SODO	N
5001166	883314132083	CABERNET VIN JEUNES 35 CL	53332	E2788	SODO	N
5001167	883314132090	CABERNET VIN JEUNES 47 CL	53332	E2790	SODO	N
5001181	883314023367	OENOLOGUE CHAMPAGNE 26 CL	53332	U0952	SODO	N
5001189	26102579206	ROMAN RØDVIN 21 CL LUMINARC	53332	E5068	SODO	N
5001190	26102585924	ROMAN RØDVIN 14 CL LUMINARC	53332	E5069	SODO	N
5001209	26102307823	LONGCHAMP VANDGLAS 32 CL	53332	G5077	SODO	N
5001210	26102306468	LONGCHAMP VINGLAS 17 CL	53332	G5214	SODO	N
5001211	26102545591	LONGCHAMP COGNAC 32 CL	53332	G5218	SODO	N
5001213	26102589571	LONGCHAMP BITTER 6 CL	53332	G5223	SODO	N
5001216	26102639412	LONGCHAMP SHOT GLAS 4,5 CL	53332	G5228	SODO	N
5001217	26102589465	LONGCHAMP VANDGLAS 28 CL	53332	G5157	SODO	N
5001220	26102589588	LONGCHAMP VINGLAS 12 CL	53332	G5224	SODO	N
5001222	26102595213	LONGCHAMP VANDGLAS 23 CL	53332	G5225	SODO	N
5001223	26102805947	MASQUERADE RØDVIN 25CL	53332	G5544	SODO	N
5001224	26102806562	MASQUERADE HVIDVIN 18CL	53332	G5550	SODO	N
5001225	26102805671	MASQUERADE CHAMPAGNE 17CL	53332	G5543	SODO	N
5001226	26102805978	MASQUERADE WHISKY 30CL	53332	G5547	SODO	N
5001227	26102806005	MASQUERADE LONGDRINK 38CL	53332	G5549	SODO	N
5001236	26102980194	ØLGLAS VERTIGE 35CL	53332	14781	SODO	N
5001253	10026102624514	KARAFFEL DECANTA 2 LITER	53332	62451	SODO	N
5001258	26102006306	SKÅL COSMOS 23 CM	53332	E8859	SODO	N
5001260	26102006559	SKÅL COSMOS 17 CM	53332	H5360	SODO	N
5001261	26102023884	SKÅL COSMOS 14 CM	53332	64091	SODO	N
5001263	26102068908	SKÅL COSMOS 10 CM	53332	30361	SODO	N
5001310	26102751466	CITRONPRESSER HÆRDET GLAS	53332	75146	SODO	N
5001315	26102710029	SMØRSKÅL M/KO	53332	73115	SODO	N
5001400	883314185195	OPBEVARINGSBOKS GLAS 370 ML	53332	G8402	SODO	N
5001402	883314185201	OPBEVARINGSBOKS GLAS 760 ML	53332	G8412	SODO	N
5001404	883314185218	OPBEVARINGSBOKS GLAS 1160 ML	53332	G8404	SODO	N
5001406	883314185225	OPBEVARINGSBOKS GLAS 1890 ML	53332	G8403	SODO	N
5002010	26102214541	SALT & PEBERBØSSE GLAS	53332	633	SODO	N
5002325	26102418987	OCTIME KLAR LYSESTAGE	53332	41898	SODO	N
5002482	26102780459	BOLCHEGLAS POT CLUB 0,28LSMALL	53332	78045	SODO	N
5002484	26102582701	BOLCHEGLAS POT CLUB 0,5 L	53332	11266	SODO	N
5002486	26102635858	BOLCHEGLAS POT CLUB 0,75 L	53332	11972	SODO	N
5002488	26102569153	BOLCHEGLAS POT CLUB 1,0 L	53332	12404	SODO	N
5002489	26102713662	SYLTEGLAS, POT CONFITURE	53332	71989	SODO	N
5002490	26102582718	BOLCHEGLAS POT CLUB 1,5 L	53332	12252	SODO	N
5002492	26102348185	BOLCHEGLAS POT CLUB 1,5 L BIG	53332	34818	SODO	N
5002493	26102348192	BOLCHEGLAS POT CLUB 2,00 L BIG	53332	34819	SODO	N
5010138	26102414156	OSTEKLOKKE 2 DELE GLAS Ø27 CM.	53332	41415	SODO	N

5010250	883314140798	TALLERKEN VOLARE HVID 22,5 CM	53332	E9169	SODO	N
5010251	883314140804	TALLERKEN VOLARE HVID 23 CM	53332	E9167	SODO	N
5010252	883314140781	TALLERKEN VOLARE HVID 27 CM	53332	E9171	SODO	N
5010253	883314153590	SKÅL VOLARE HVID 16 CM.	53332	G0734	SODO	N
5010255	883314211399	SALATSKÅL VOLARE HVID 27 CM.	53332	G5352	SODO	N
5010270	883314261202	TALLERKEN VOLARE SORT 22,5 CM	53332	G9399	SODO	N
5010271	883314261233	TALLERKEN VOLARE SORT 23 CM	53332	G9402	SODO	N
5010272	883314231946	TALLERKEN VOLARE SORT 27 CM	53332	G7045	SODO	N
5010273	883314261240	SKÅL VOLARE SORT 16 CM.	53332	J1410	SODO	N
5010510	26102252796	KRUS 29 CL	53332	D6880	SODO	N
5010514	26102519462	KOP+UNDERKOP 16 CL ÆSKE Á 6	53332	E9146	SODO	N
5010516	26102521083	DESSERTTALLERKEN 19,5	53332	H4124	SODO	N
5010518	26102286838	TALLERKEN FLAD 24,5 CM	53332	D6890	SODO	N
5010520	26102285954	TALLERKEN DYB 22,5 CM	53332	D6889	SODO	N
5010521	26102519172	OVALT FAD 35 CM	53332	E9667	SODO	N
5010528	26102246443	OVERKOP 13 CL Ø: 7,0 H: 5,8	53332	22795	SODO	N
5010530	26102246498	OVERKOP 19 CL Ø: 7,8 H: 6,5	53332	22837	SODO	N
5010535	26102509579	UNDERKOP 14 CM	53332	22720	SODO	N
5010540	26102511275	TALLERKEN FLAD 15,5 CM	53332	22506	SODO	N
5010545	26102511428	DESSERTTALLERKEN 19,5CM	53332	22530	SODO	N
5010550	26102511473	TALLERKEN DYB 22,6 CM	53332	22514	SODO	N
5010554	26102511626	TALLERKEN FLAD 23,5 CM.	53332	22522	SODO	N
5010555	26102511602	FROKOSTTALLERKEN 22,5CM	53332	29337	SODO	N
5010556	26102511640	TALLERKEN FLAD 25 CM	53332	24742	SODO	N
5010557	26102510810	YMERSKÅL COUPELLE 16 CL	53332	25293	SODO	N
5010558	26102491485	STEAKTALLERKEN OVAL 30 CM	53332	49145	SODO	N
5010559	26102567210	KRUS 25 CL	53332	36140	SODO	N
5010560	26102567197	KRUS 29 CL STABELBAR	53332	18316	SODO	N
5010595	26102863176	CHAMPAGNEKØLER ISLANDE	53332	52656	SODO	N



26 November 2012

HAAHR

Ref. : PC/sl

Re :

See Haahr list 221112 attached

We, Arc International 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 contact 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.

Arc International France
Société par Actions simplifiée
Au Capital de 61 368 082 Euros
RCS Boulogne-sur-Mer 504 313 032
104 Avenue du Général De Gaulle
62510 ARQUES - France

A handwritten signature in black ink, appearing to be 'Philippe CAZIER', written over a horizontal line.

Philippe CAZIER
AIF Quality Director



GLASS DATA SHEET
CLEAR SODALIME GLASS

Ref.	CL/sl
Date	15/06/2012
Page 1 of 1	

Last revision	New format	
Issued by	Ivan LITVINENKO-MOREL	Approved by Rodolphe DELAVAL

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Chemical composition (Indicative average values in % of oxides)		Raw materials	Measurement method
SiO ₂	72.5%	Sand	Chemical analysis using X-ray fluorescence
Na ₂ O	13.5%	Sodium carbonate	
CaO	11%	Calcium carbonate	
Al ₂ O ₃	1.5%	Alumina / Feldspar	
MgO	1.5%	Dolomite	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Color (Lab* system)	94 < L* < 96 Iron content > 200 mg/kg (expressed in Fe ₂ O ₃)	Total transmission measurement with a spectrophotometer at 1cm in C 2° according to CIE 15:2004
Melting temperature (Tf) in °C (approx.)	1460	ISO 7884 (1987)
Transformation temperature (Tg) in °C	550	
Softening temperature (Pr) in °C	600	
Average thermal expansion coefficient (E ⁻⁷ K ⁻¹)	90 ± 3	ISO 7991 (1987) between 20°C and 300°C
Density	2.5	Pycnometer
Refractive index	1.52	Refractometer
Thermal conductivity (W.m ⁻¹ .K ⁻¹)	1.05 at 20°C	
Specific heat (cal.°C ⁻¹ .g ⁻¹)	0.24	

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 3	ISO 719
Alkali resistance	A1	ISO 695
Acid resistance	1	DIN 12116

FUNCTIONAL USES

Use	Standard	Annealed	Tempered	ΔT 100
Dishwasher resistance	EN 12875-2	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



GLASS DATA SHEET
KWARX

Ref.	CL/sl
Date	15/06/2012
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Last revision	New format	
Issued by	Ivan LITVINENKO-MOREL	Approved by Rodolphe DELAVAL

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Chemical composition (Indicative average values in % of oxides)		Raw materials	Measurement method
SiO ₂	72.5%	Sand	Chemical analysis using X-ray fluorescence
Na ₂ O	13.5%	Sodium carbonate	
CaO	11%	Calcium carbonate	
Al ₂ O ₃	1.5%	Alumina / Feldspar	
MgO	1.5%	Dolomite	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Color (Lab* system)	Clear glass L* ≥ 98 C* ≤ 0.5 Iron content ≤ 200 mg/kg (expressed in Fe ₂ O ₃)	According to IWA8 standard "Glass clarity" Internal transmission measurement with a spectrophotometer at 2 cm in D65 10°
Melting temperature (Tf) in °C (approx.)	1460	ISO 7884 (1987)
Transformation temperature (Tg) in °C	550	
Softening temperature (Pr) in °C	600	
Average thermal expansion coefficient (E ⁻⁷ K ⁻¹)	90 ± 3	ISO 7991 (1987) between 20°C and 300°C
Density	2.5	Pycnometer
Refractive index	1.52	Refractometer
Thermal conductivity (W.m ⁻¹ .K ⁻¹)	1.05 at 20°C	
Specific heat (cal.°C ⁻¹ .g ⁻¹)	0.24	

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 3	ISO 719
Alkali resistance	A1	ISO 695
Acid resistance	1	DIN 12116

FUNCTIONAL USES

Use	Standard	Annealed
Dishwasher resistance	EN 12875-2	Yes
Resistance to thermal shock	EN 1183	ΔT 50°C
Microwave oven	EN 15284	No
Oven	EN 13834	No
Hot plate / flame / ceramic hob	EN 12983-2	No

KWARX'S ASSETS

STRONG 

→ One of the most* resistant glass materials
→ After more than 300 cycles in domestic dishwasher / 2000 cycles in industrial dishwasher*, Kwarx retains exceptional transparency and unaltered lustre.

BRIGHT 

PURE 

→ Exceptional transparency and minimum discoloration rate





**GLASS DATA SHEET
ZENIX**

Ref.	CL/sl
Date	15/06/2012
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Last revision	New format	
Issued by	Ivan LITVINENKO-MOREL	Approved by Rodolphe DELAVAL

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Chemical composition (Indicative average values in % of oxides)		Raw materials	Measurement method
SiO ₂	72%	Sand	Chemical analysis using X-ray fluorescence
Na ₂ O	12%	Sodium carbonate	
CaO	1.5%	Calcium carbonate	
Al ₂ O ₃	8%	Alumina	
BaO	2.5%	Barium carbonate	
F ₂	5%	Sodiumfluosilicate	
K ₂ O	1.5%	Nepheline	

PHYSICO-CHEMICAL PROPERTIES

Properties (Unit)	Value	Measurement method or Standards
Color (Lab* system)	Opaque "bone" color	Total transmission measurement with a spectrophotometer at 1cm in D65 10° according to CIE 15:2004
Melting temperature (Tf) in °C (approx.)	1510	ISO 7884 (1987)
Transformation temperature (Tg) in °C	505	
Softening temperature (Pr) in °C	585	
Average thermal expansion coefficient (E ⁻⁷ K ⁻¹)	82 ± 3	ISO 7991 (1987) between 20°C and 300°C
Density	2.41	Pycnometer
Refractive index	1.47	Refractometer
Thermal conductivity (W.m ⁻¹ .K ⁻¹)	-	
Specific heat (cal.°C ⁻¹ .g ⁻¹)	0.24	

CHEMICAL DURABILITY

Durability	Class	Standard
Hydrolytic resistance at 98°C	HGB 2	ISO 719
Alkali resistance	A2	ISO 695
Acid resistance	1	DIN 12116

FUNCTIONAL USES

Use	Standard	Tempered
Dishwasher resistance	EN 12875-2	Yes
Resistance to thermal shock	EN 1183	ΔT 130°C
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.

