



**NSF/ANSI 61-2009: Drinking Water System
Components Health Effects Annex G referencing
CALIFORNIA ASSEMBLY BILL AB1953
Chapter 853-2006**

**Ice Makers
(Models: 1.5IM, 2.5IM, and 3.0IM)**

Project No. G100308582

February 18, 2011

Prepared for:
Northland Corporation dba AGA Marvel
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TEST REPORT
Intertek Testing Services NA, Inc
3933 US Route 11 Industrial Park Cortland, NY 13045

PROJECT NO.: G100308582

DATE: February 18, 2011

REPORT NO. 100308582COL-001

RENDERED TO:
Northland Corporation dba AGA Marvel
1260 E Van Denise St
P.O. Box 400
Greenville, MI 48838-0400

STANDARD REFERENCED AND TEST METHOD:

NSF/ANSI 61-2009: Drinking Water System Components Health Effects Annex G referencing California Assembly Bill AB 1953, Chapter 853-2006.

AUTHORIZATION:

The test was authorized by Mr. Mike Korpai; A representative from Northland Corporation dba AGA Marvel

SPECIMEN DESCRIPTION:

The samples submitted by the client were ice makers (Models: 1.5IM, 2.5IM, and 3.0IM). The materials in question are listed on the following pages.

GENERAL DESCRIPTION

The test evaluation that was performed at the biochemical lab in Columbus, Ohio was NSF/ANSI 61-2009: Drinking Water System Components Health Effects Annex G referencing California Assembly Bill AB 1953, Chapter 853-2006. The RoHS evaluation was performed by Intertek-CMS located at 670 Sentry Parkway, Blue Bell, PA 14922. The ice makers were tested for the amount of lead that is leached out into the water contact areas during testing. One sample of each material was received in good condition on January 10, 2011 and given the identification number of COL1101101648-001. The samples are currently in production.

TEST DESCRIPTION

The samples were then cleared of all water and sent to the Intertek-CMS office in Blue Bell, PA for RoHS testing on all surfaces that will come in contact with water

All components that come in contact with water were tested for their lead content (as well as other toxic heavy metals) using an XRF unit

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Calculation of contributing lead- The percentage of lead content within each component that comes into contact with water shall be multiplied by the percent of the total wetted surface of the entire pipe and pipe fitting, plumbing fitting, or fixture represented in each component containing lead. These percentages shall be added and the sum shall constitute the weighted average lead content of the pipe and pipe fitting, plumbing fitting, or fixture

CALIBRATED EQUIPMENT:

Calibrated Equipment	Identification Number	Next Calibration Due Date
XRF	7336	CBU*
Micrometer	E234	03/15/11

*CBU-Calibrated Before Each Use

RESULTS:

Tables of the Results can be found in Annex A of the report.

CONCLUSION: This report documents the performance of the ice makers submitted by Northland Corporation dba AGA Marvel. The test sample evaluations were conducted at the Intertek biochemical laboratory located in Columbus, OH between January 27, 2011 and February 18, 2011. The ice makers (Models: 1.5IM, 2.5IM, and 3.0IM) do comply with the requirements of NSF/ANSI 61-2009: Drinking Water System Components Health Effects Annex G referencing California Assembly Bill AB 1953, Chapter 853-2006.

Test Performed by:



Shannon Meier
Project Engineer
Columbus Office

Report Approved by:



Ramzi Amawi
Operations Manager
Columbus Office

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ANNEX A

Model: 1.5IM and 2.5IM

Component	Part No.	Supplier	Number of Components	Wetted Surface Area (mm ²)	Percent of Total Wetted Surface Area (%)	Maximum Lead Content (%)	Contributing Lead Content (%)
Evap-Flat (White)	41002541-002	Shanghai Xindong	1	66990.20	14.16	0	0.000
Water Fill Tube	41003678	Pioneer Plastics	1	8586.40	1.81	0	0.000
Water Line-0.25 Diameter	41002006	Crescent Plastics	1	18241.30	3.86	0	0.000
Ice Maker-TW626648	1220015C	Whirlpool Corp	1	85693.40	18.11	0	0.000
Shut off Arm	1220025B	Dudek & Bock	1	574.00	0.12	0	0.000
Ice Bucket-15IM	41002909	AGA-Marvel	1	282696.20	59.75	0	0.000
Fitting-Water Line-Washer	41005780	NEO Products	1	247.70	0.05	0	0.000
Fitting-Water Line 90° Adapter	41005780	NEO Products	1	372.20	0.08	0.11	0.0001
Fitting-Water Line-Sleeve	41005780	NEO Products	1	126.50	0.03	2.62	0.0008
Water Valve, 30IM Parts	41005866	Horton Co	1	8320.00	1.76	0	0.000
Water Valve, 30IM Guide	41005866	Horton Co	1	1266.40	0.27	0	0.000
Total Wetted Surface Area: 473114.30 mm ²			Total Contributing Lead: 0.0009				

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Model: 3.0IM

Component	Part No.	Supplier	Number of Components	Wetted Surface Area (mm ²)	Percent of Total Wetted Surface Area (%)	Maximum Lead Content (%)	Contributing Lead Content (%)
Vinyl Tubing	41005654	ILEPA Industrial	1	15201.30	1.50	0	0.0000
Liner	41012007	Jer-Den Plastics	1	351605.70	34.79	0	0.0000
Fitting-Water Line-Washer	41005780	NEO Products	1	247.70	0.02	0	0.0000
Fitting-Water Line 90° Adapter	41005780	NEO Products	1	372.20	0.04	0.11	0.0000
Fitting-Water Line-Sleeve	41005780	NEO Products	1	126.50	0.01	2.62	0.0003
Poly Tubing-LD	41011797	McMaster-Carr	1	18241.30	1.80	0	0.0000
Distributor Tube	41005515	Tech-Way Ind	1	14748.40	1.46	0	0.0000
Distributer End	41005705	Marian Incorp	2	246.50	0.05	0	0.0000
Evap Assy 30IM	41005713	Tai Sing Pro (HK)	1	50472.80	4.99	0	0.0000
Reservoir, 30IM	41005345	Jer-Den Plastics	1	161796.50	16.00	0	0.0000
Spacer-White	41005635	Micro Plastics	1	230.20	0.02	0	0.0000
Drain Valve-30IM Parts	41005530	Horton Co	1	7709.00	0.76	0	0.0000
Drain Valve-30IM Guide	41005530	Horton Co	1	2810.30	0.28	0	0.0000
Circulation Pump	41005537	Morrill Motors	1	148515.10	14.69	0	0.0000
Drain Plug-Reservoir	41005859	Polymer Equip	1	595.50	0.06	0	0.0000
Ice Deflector	41005502	Ryerson	1	63794.10	6.31	0	0.0000
Ice Scoop-Plastic	41011999	Guangzhou Dashi	1	64419.20	6.37	0	0.0000
Escutcheon	41012161	Ryerson	1	54970.90	5.44	0	0.0000
Water Line-0.25 Diameter	41002006	Crescent Plastics	1	16883.80	1.67	0	0.0000
Water Valve-30IM Parts	41005866	Horton Co	1	8320.00	0.82	0	0.0000
Water Valve-30IM Guide	41005866	Horton Co	1	1266.40	0.13	0	0.0000
Tubing Tee Fitting	41005702	US Plastics	1	3089.70	0.31	0	0.0000
Flow Restrictor	41006149	Richmond Ind Supp	1	401.30	0.04	0	0.0000
Standoff-Circulation	41012165	Ryerson	1	4770.30	0.47	0	0.0000
Grid-Cutter Assy	42412615	Tai Sing Pro (HK)	1	19878.70	1.97	0	0.0000
Total Wetted Surface Area: 1010960.00 mm ²			Total Contributing Lead: 0.0003				

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