

HYUNDAI
WACORTEC

NANO -PH FILTER

ALKALI REVIVIFICATION WATER



Oxidation Reduction Potential Intensification
Remove Active Oxygen

NANO PH FILTER – Alkali Water filter

Small cluster

Alkali Revivification water is dense organization to easily carry by mineral ion action

And speed up metabolism to transpire body wastes. (general water 127Hz = alkali Revivification water 62Hz)

Remove active oxygen

Active oxygen is hinder activity with primary factor for aging & health by expended oxidative to destructive metabolism in deficiency electron

THE BEST CHOICE
HYUNDAI

NANO PH FILTER – Alkali Water filter

Reduction is?

ORP – Oxidation Reduction Potential, that is determinant energy in accordance with balance of between the oxidizing agent & a reducing agent in solution as the low numerical value is show strong reduction, high numerical value is show the strong oxidative.

Finally , need the hydrogen ($H \rightarrow H \cdot H^+ H_2$) and keep up balance of mineral to product for alkali Revivification water

LOHAS Alkali Revivification water is technique an intensive method to formation process as copious as inclusion of mineral and hydrogen(H)

LOHAS Water is strong of oxidation-reduction potential reducing rate (ORP – -100~-250mV),

The other side Oxidative rate is high that oxidative reduction potential of general water(ORP - +200 ~ +600mV)

THE BEST CHOICE
HYUNDAI

NANO PH FILTER – Alkali Water filter

Material character

Nature Mineral -

1. Catalysis for produce hydrogen and create electric charge operation tourmaline powder
2. Magnetite powder can control oxidation and reducing process
3. Zeolite powder is high function of an ion replacement(MEQ) by absorption & suction
4. Active carbon powder
5. Gur binder(approved FDA) and Mixed bubbly PE binder be produce black filter by compressed sinter method.



THE BEST CHOICE
HYUNDAI

NANO PH FILTER – Alkali Water filter

Advantages

Product Hydrogen(H) and reduction to rise up Hydrogen ion density improvement of erase function O3 to anti-oxidation by strengthening(-mV) with ORP-Oxidation Reduction Potential

-Nano-Ph filter : Ph 8.0 ~ 10 & ORP -100~-200mV

-Durability and Service life : 3,600L

THE BEST CHOICE
HYUNDAI

NANO PH FILTER – FILTER TEST REPORT

THE BEST CHOICE

KTR
www.ktr.or.kr
www.korea-testing.com
88-2, Yeongdeungdo-dong 8-ga, Yeongdeung-gu, Seoul, Korea
Tel : +82-2-2164-0011 Fax : +82-2-2634-1000

KOREA TESTING & RESEARCH INSTITUTE

TEST REPORT (Registered Copy)

7-6, Gomak-Ri, Wolgot-Myeon, Gimpo-Si, Gyeonggi-Do, KOREA TEL 82-31-999-3000 FAX 82-31-999-3001
Report No : TAH-004357 Receipt Date : Jul.23.2007
Client : HYUNDAI WACORTEC CO., LTD. Test Date : Aug.08.2007
684-49, Gongreung-Dong, Nowon-Ku, Seoul, KOREA

Sample : Alpha Filter

TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Generi Bactria	CFU/ml		Not Detected	By The Client (Test Method of Drinking Water "The Ministry of Environment" : 2004)
Total E.Coli	-/100ml		Not Detected	By The Client (Test Method of Drinking Water "The Ministry of Environment" : 2004)
E.Coli/Fecal Coliforms	-/100ml		Not Detected	By The Client (Test Method of Drinking Water "The Ministry of Environment" : 2004)
Pb	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
F ⁻	mg/L		0.2	Test Method of Drinking Water "The Ministry of Environment"
As	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Se	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Hg	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
CN	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Cr(VI)	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
NH ₃ -N	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"

- Next Page -

Jung-H Lee
Prepared by Jung-H Lee
Tel : +82-31-999-3144
E-mail : emjlee@ktr.or.kr

Woo-Gi Lee
Reviewed by Uh-Gi Lee
Technical Manager
E-mail : lug51@ktr.or.kr

Registered copy (Valid until 2008)

Aug.08.2007



Korea Testing & Research Institute

President *Kisung Cho*

1 of Total 5 Page(s)

KTR TEST REPORT (Registered Copy)
7-6, Gomak-Ri, Wolgot-Myeon, Gimpo-Si, Gyeonggi-Do, KOREA TEL 82-31-999-3000 FAX 82-31-999-3001
Report No : TAH-004357 Receipt Date : Jul.23.2007
Client : HYUNDAI WACORTEC CO., LTD. Test Date : Aug.08.2007
684-49, Gongreung-Dong, Nowon-Ku, Seoul, KOREA

Sample : Alpha Filter

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
TS	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Ca	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Mg	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Phosphate	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Chlorine	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Ammonia	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Fluoride	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Cyanide	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
1,1-Dichloroethane	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Trichloroethylene	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Perchloroethylene	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Carbon tetrachloride	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Benzene	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"

Jung-H Lee Prepared by Jung-H Lee
Woo-Gi Lee Reviewed by Uh-Gi Lee
KTR Korea Testing & Research Institute President *Kisung Cho*

KTR TEST REPORT (Registered Copy)
7-6, Gomak-Ri, Wolgot-Myeon, Gimpo-Si, Gyeonggi-Do, KOREA TEL 82-31-999-3000 FAX 82-31-999-3001
Report No : TAH-004357 Receipt Date : Jul.23.2007
Client : HYUNDAI WACORTEC CO., LTD. Test Date : Aug.08.2007
684-49, Gongreung-Dong, Nowon-Ku, Seoul, KOREA

Sample : Alpha Filter

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
TS	mg/L		11.2	Test Method of Drinking Water "The Ministry of Environment"
Ca	mg/L		14	Test Method of Drinking Water "The Ministry of Environment"
Mg	mg/L		18	Test Method of Drinking Water "The Ministry of Environment"
Phosphate	mg/L		0.2	Test Method of Drinking Water "The Ministry of Environment"
Chlorine	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Ammonia	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Fluoride	mg/L		0.02	Test Method of Drinking Water "The Ministry of Environment"
SO ₄ ²⁻	mg/L		11	Test Method of Drinking Water "The Ministry of Environment"
Cl ⁻	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Al	mg/L		0.3	Standard Methods 2005
NO ₃ ⁻	mg/L		14.8	Standard Methods 2005
NO ₂ ⁻	mg/L		7.26	Standard Methods 2005
N	mg/L		2.23	Standard Methods 2005
SiO ₂	mg/L		<10	Standard Methods 2005

Jung-H Lee Prepared by Jung-H Lee
Woo-Gi Lee Reviewed by Uh-Gi Lee
KTR Korea Testing & Research Institute President *Kisung Cho*

KTR TEST REPORT (Registered Copy)
7-6, Gomak-Ri, Wolgot-Myeon, Gimpo-Si, Gyeonggi-Do, KOREA TEL 82-31-999-3000 FAX 82-31-999-3001
Report No : TAH-004357 Receipt Date : Jul.23.2007
Client : HYUNDAI WACORTEC CO., LTD. Test Date : Aug.08.2007
684-49, Gongreung-Dong, Nowon-Ku, Seoul, KOREA

Sample : Alpha Filter

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Turbidity	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Iron	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Zinc	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
1,1-Dichloroethane	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Carbon Tetrachloride	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
1,1-Dichloro-2-methyl-2-propyl-2-butane	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
Hexachlorocyclopentadiene	mg/L		0	Test Method of Drinking Water "The Ministry of Environment"
Perfluorooctylsulfonate (PFOS)	mg/L		1.1	Test Method of Drinking Water "The Ministry of Environment"
Color	PCU		Plank	Test Method of Drinking Water "The Ministry of Environment"
Oil	mg/L		Plank	Test Method of Drinking Water "The Ministry of Environment"
Cl ⁻	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
CO ₂	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"
SO ₄ ²⁻	mg/L		Not Detected	Test Method of Drinking Water "The Ministry of Environment"

Jung-H Lee Prepared by Jung-H Lee
Woo-Gi Lee Reviewed by Uh-Gi Lee
KTR Korea Testing & Research Institute President *Kisung Cho*

KTR TEST REPORT (Registered Copy)
7-6, Gomak-Ri, Wolgot-Myeon, Gimpo-Si, Gyeonggi-Do, KOREA TEL 82-31-999-3000 FAX 82-31-999-3001
Report No : TAH-004357 Receipt Date : Jul.23.2007
Client : HYUNDAI WACORTEC CO., LTD. Test Date : Aug.08.2007
684-49, Gongreung-Dong, Nowon-Ku, Seoul, KOREA

Sample : Alpha Filter

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
TS	mg/L		14.8	Standard Methods 2005
Ca	mg/L		14.8	Standard Methods 2005
Mg	mg/L		18	Standard Methods 2005
Phosphate	mg/L		0.2	Standard Methods 2005
Chlorine	mg/L		Not Detected	Standard Methods 2005
Ammonia	mg/L		Not Detected	Standard Methods 2005
Fluoride	mg/L		0.02	Standard Methods 2005
SO ₄ ²⁻	mg/L		11	Standard Methods 2005
Cl ⁻	mg/L		Not Detected	Standard Methods 2005
Al	mg/L		0.3	Standard Methods 2005
NO ₃ ⁻	mg/L		14.8	Standard Methods 2005
NO ₂ ⁻	mg/L		7.26	Standard Methods 2005
N	mg/L		2.23	Standard Methods 2005
SiO ₂	mg/L		<10	Standard Methods 2005

Jung-H Lee Prepared by Jung-H Lee
Woo-Gi Lee Reviewed by Uh-Gi Lee
KTR Korea Testing & Research Institute President *Kisung Cho*