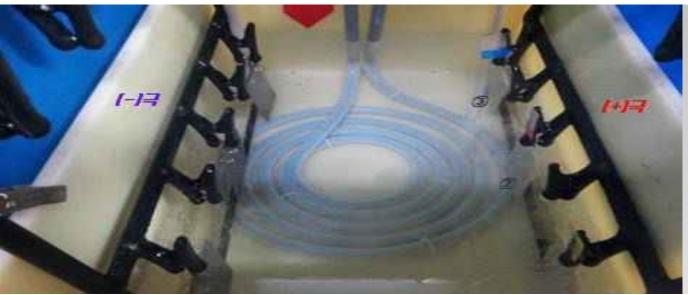
Prime Water Plate Technology



Prime Water Electrodes

DURABILITY

PRIME WATER ELECTRODES Internal Durability Test Conducted

According to the analysis of the test results: The tests were performed according to standard test methodology. After each test was taken according to the different flow rates and comparing the analysis to a range of standards, even when not using the standard amounts, water cell life was ten years

- TEST conditions: H2SO4 0.5mol / I on the electrolyte solution 40 °C, 2A / d m² is current, 240hr electrolysis
- TEST Quantity: 3 varieties [Heat 1, Heat 2 times, Brazing products]
- TEST Date: 1/10 08:00
- TEST End Date: 20.01 08:00
- TEST progress results: 240hr after all

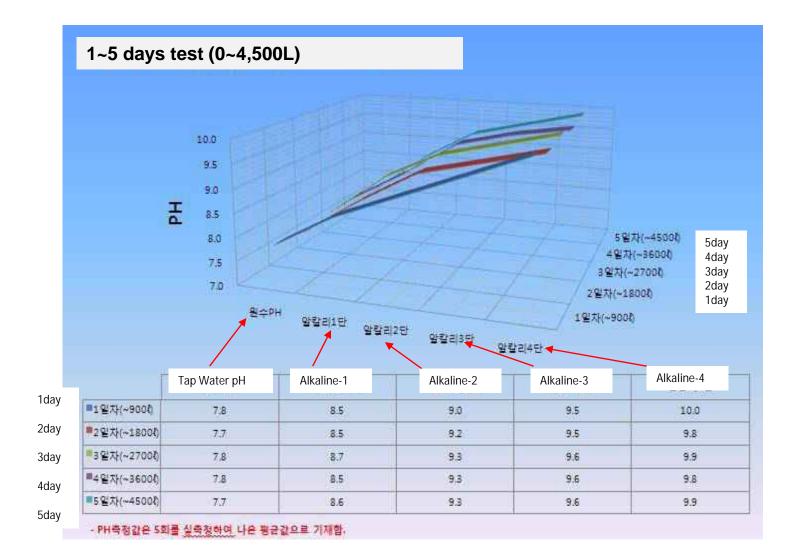
n=	1 Pt 1 =	0.22	T.
n=	2 Pt 1 =	0.18	-
n=	3 Pt 1 =	0.20	(1) (2) (2) (2) (2)
n=	4 Pt 1 =	0.19	
n=	5 Pt 1 =	0.14	10 10
n=	6 Pt 1 =	0.18	B O B
n=	7 Pt 1 =	0.21	20 31 41
n=	8 Pt 1 =	0.20	Contraction of the
n=	9 Pt 1 =	0.21	

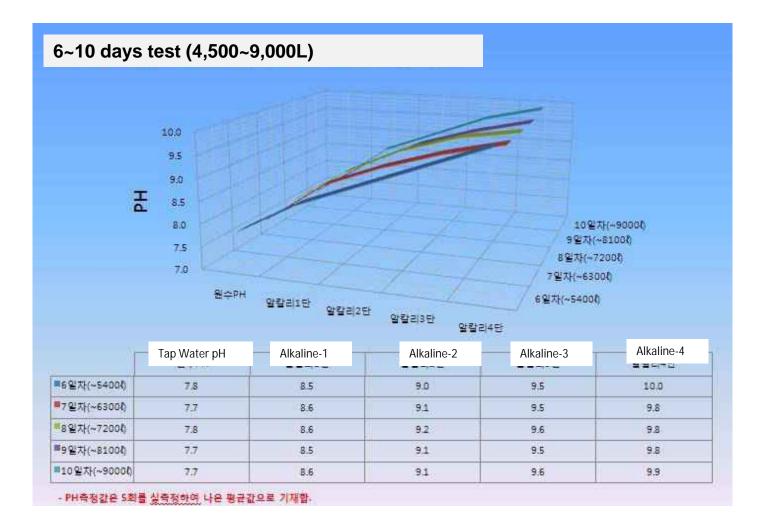
Mean	0.190
Standard deviation	0.024
C.O.V. (%)	12.85
Range	0.08
Number of readings	9.0
Min. reading	0.14
Max. reading	0.14
Measuring time	0.22
Operatior:	20

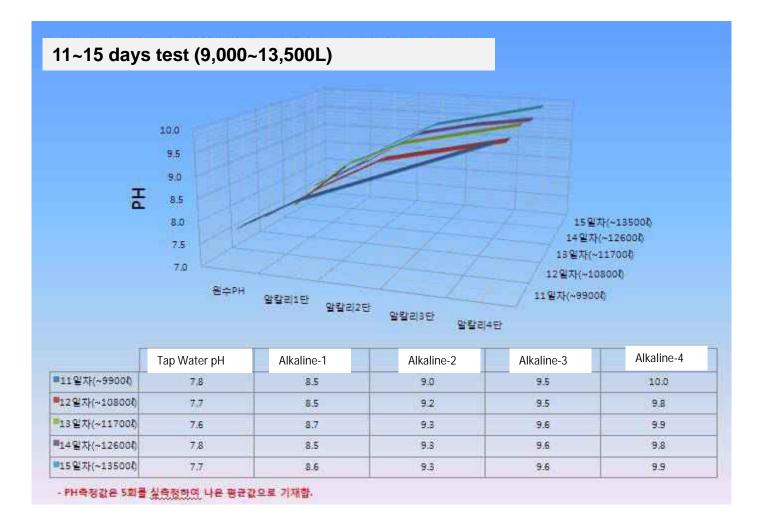
NO	Data	Descriptions	Comments
1	Product	Electrolytic Alkaline Water Generator (Prime 1301 – 13Plates)	
2	Test Period	40 days	Daily Journal kept
3	Total Discharge	36,000 liters (Four people using 10 L per day on average: about 10 years worth)	Standard - 365 day year
4	Basis of usage life	At least 10 years over	
5	Water pressure	2.5 Kg/m²	Water pressure from unit
6	Water flow rate	2.5 l/min	Alkaline water:1.5l/min Acidic water:1.0l/min
7	This method	Every day five samples were taken to test pH and the average was taken down.	
8	This started cleaning method	The machine was used for 30 min. to produce alkaline water after which the machine went into cleaning cycle then tested.	
9	Testing machine	pH-meter Model:HM-20P Jejo Co.: TOA(Japan)	

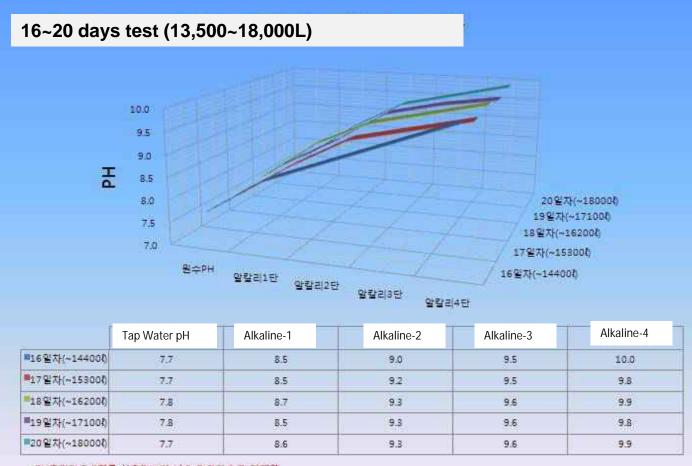
According to the analysis of the test results:

The tests were performed according to standard test methodology. After each test was taken according to the different flow rates and comparing the analysis to a range of standards, even when not using the standard amounts, water cell life was at least ten years over

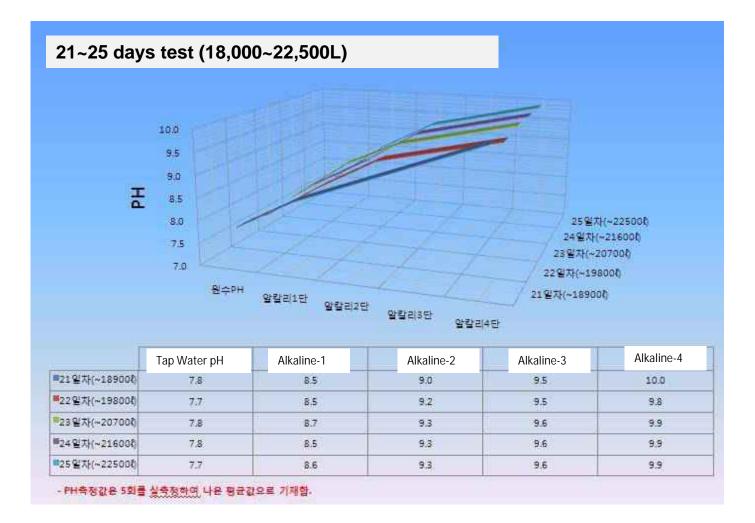


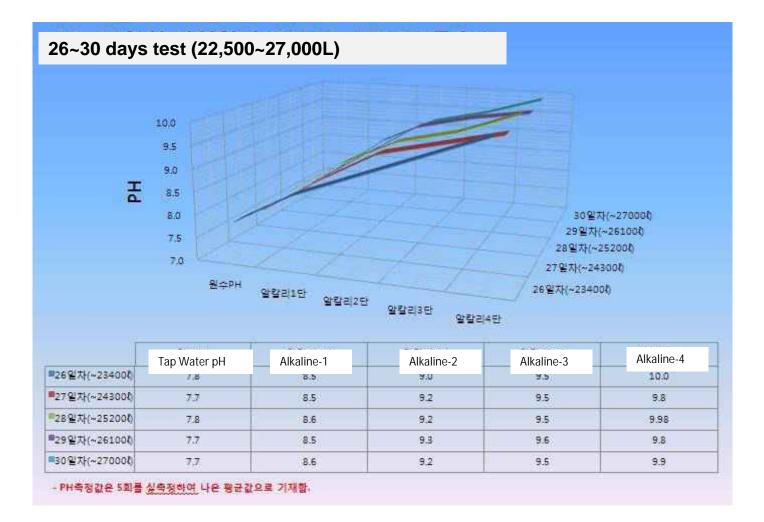


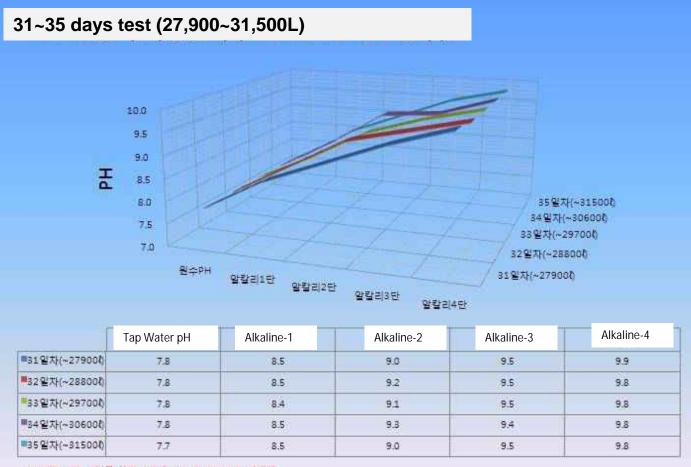




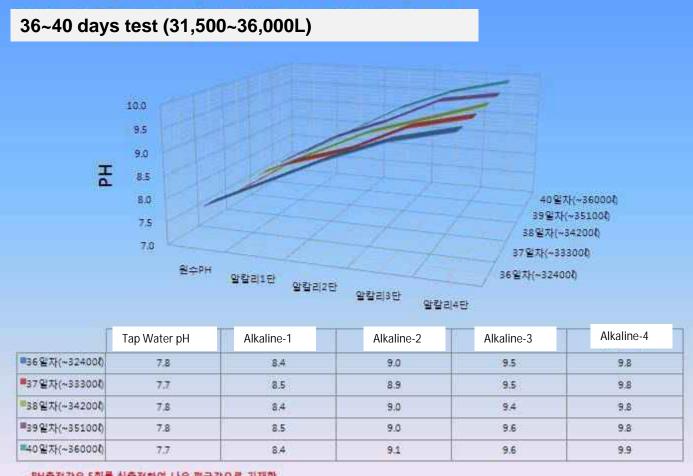
- PH측정값은 5회를 실측정하여 나온 평균값으로 기재합.



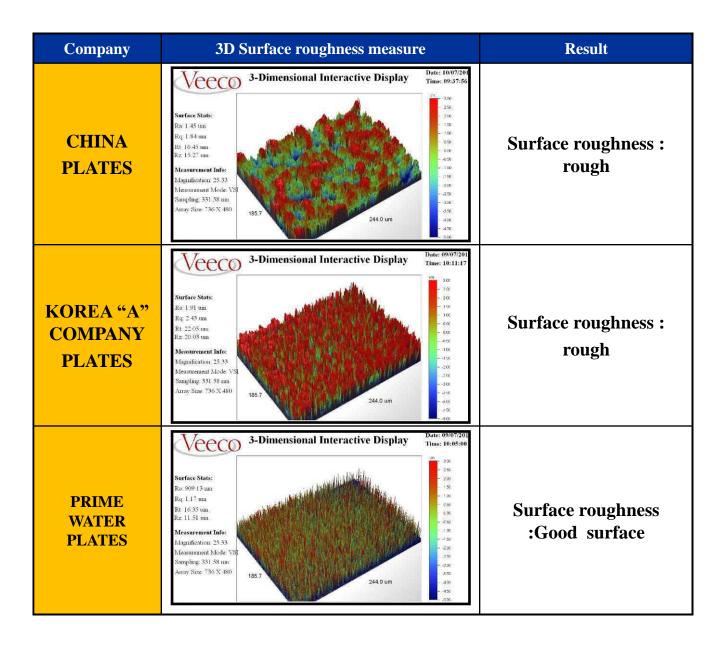




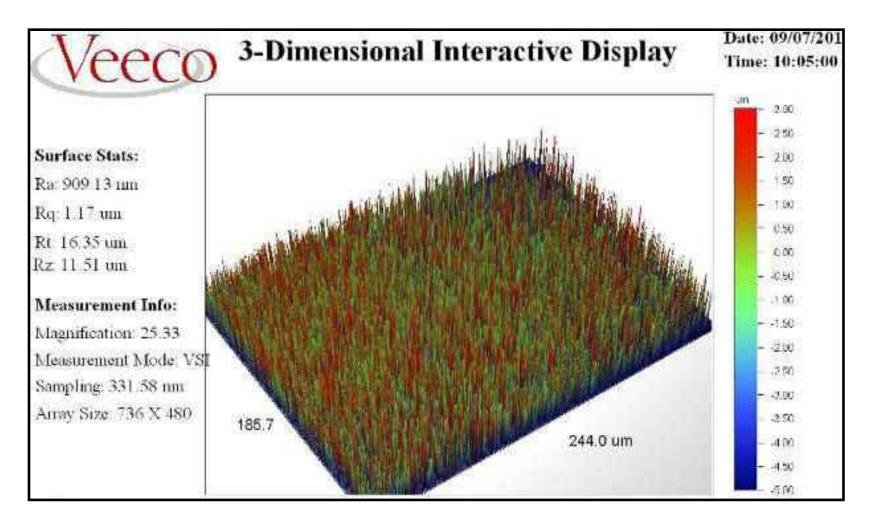
- PH측정값은 5회를 실측정하여 나온 평균값으로 기재함.



- PH측정값은 5회를 실측정하여 나온 평균값으로 기재함.



Prime Water Electrodes Surface



Platinum Plating Process





Press Titanium shape processing in the press

Electrode machining Electrode cutting and rolling process

Washing Removal of oil and grease from media and cut pieces

Spot Weding Welding of the metal terminal to the electrode.

Sanding Sand blasting process to improve plating adhesion

Racking Titanium electrodes loaded onto plating jig



Skimmer Removal of any surface grease or oil

Etching Removal of oxidation from titanium surface

Activator Surface of titanium activated to improve plating adhesion

Platinum Plating Titanium plated with platinum

Drying Water is removed from the surface of the platinum

Heat Treatment Heat treated in furnace to strengthen adhesion of platinum To titanium.

Shipping Inspection Reliability and appearance Inspection / Certificate of Inspection issued

Packing/Shipping