



**BIOTECH INDUSTRIES**

**Office**

2B/3, 7th floor, Rangoli Tower, Opp. V.S.Hospital,  
Ashram road, Ellisbridge, Ahmedabad-380 006  
Gujarat (INDIA)

**Factory**

B-51, Bileshwar Estate, Opp. G.V.M.M. Odhav,  
SP Ring Road, Ahmedabad-382 415  
Gujarat (INDIA)

E. support@biopluswater.in  
W. biopluswater.in  
Toll Free No. 1800 313 1983



**HYDROGEN RICH,  
ANTIOXIDANT, ALKALINE WATER**

Water is **LIFE**, and  
Hydrogen rich, Alkaline  
water means  
**HEALTH.**



## Nourishing Healthy Life

The importance of nature and how much it affects human life is under-rated. There have been many researches that have proven that exposure to nature can reduce complications in the body and can improve health. The very existence of humans is based on what we get from nature. To lead a healthy life, we all require **Mineralised Alkaline** drinking water, clean air filled with oxygen and **Healthy** nutritional food. Preserving nature would mean to nourish healthy life. Our actions and interactions with Mother Nature is what facilitate healthy living. And Mother Nature survives when it gets healthy water. **Healthy** water, thus, is the most essential source that neither humans nor nature can live without. **Pure and healthy** water is the basis on which everything revolves.

# HEALTHY WATER

PH 7.5 to 9 (best for regular drinking)  
pH 9 to 10 (as per individual need drinking)

## WHAT ARE THE BENEFITS OF HYDROGEN RICH, ALKALINE WATER?

Drinking hydrogen rich, antioxidant, alkaline water has many benefits like fighting acid reflux (acidity), boost immune system, better hydration, help losing weight, better digestion & many more.

Read more in the 'Knowledge/FAQs' tab on our website.



**Cooking Rice** - With Ionized water makes it fluffier, gives a shine & cooks well.



**Coffee & Tea** - Remove bitterness of coffee and gives better fragrance to both coffee & tea. Make excellent taste.



**Hangover** - Alkaline water is good for hangovers, when taking It before going to sleep or when the stomach is empty in the morning.



**Cocktail** - An ice cocktail in alkaline water makes your drink fast softener & smoother.



**Cooking with Alkaline water** - Eliminate fishy smell fish & non-vegetarian foods.

# ENVIRONMENT FRIENDLY WATER

Over pH 10.5 (Water for cleaning)

## WHAT IS STRONG IONGEN WATER ?

Strong iongen water packs an effective cleaning effect as a detergent preserving hygiene in your daily life.

- To clean cutting boards, knives and dishes.
- To remove slime and stains on the floor.
- To remove stains from coffee, soy sauces.
- To use for washing clothes. (reduces usage of detergents)
- To remove the harsh taste of wild vegetables.
- To sterilize vegetables & meat.
- To remove toilet stains.
- Soak fresh meat & astringent vegetables in strong alkaline for 20 - 30 min. To remove the smell of fat.
- Wash vegetables & fruits with strong alkaline water for a long storage period.



# BEAUTY WATER

pH 4.0 to 6.0 ( not suitable for drinking )



## ACIDIC WATER IS ESPECIALLY EFFECTIVE IN TONING THE SKIN

It helps to refresh the skin after a hot bath or shower and also works to close the pores after washing your face.



## FOR BOILING PASTA & MAKING BATTERS FOR FRYING.

Noodles and pasta will take on a brilliant shine and improved texture as a result of boiling in acidic water. Acidic water will also enhance the crispy texture of fried foods.



## AS A CLEANER

Mild acidic water can be used to clean places which aren't very dirty.

# SANITARY WATER (Optional)

Below pH 3.0 (Disinfectant water)

## WHAT IS STRONG ACIDIC WATER ?

Excellent cleaning and disinfecting power. strong acidic water has excellent disinfecting power that helps preventing food poisoning. use it to clean & sterilize your fruits, vegetables, meat and cookware.

- To sanitize knives, cutting board and dish towels.
- To disinfect your hands.
- To disinfect your toothbrushes.
- To clean your skin.
- To remove tea and coffee stains.
- To eliminate odors.

It softens materials quickly.



It has strong power to dissolve and draw out substances.

It has strong effect to dissolve and clean materials.















# KEY FEATURE



## IONGEN ALKALINE WATER IONIZER

### Hydrogen rich, Alkaline, Antioxidant water

-  Multicolor large LED display
-  Maximum power SMPS - 450 watts
-  Two pre filters, 1 Sediment filter & 1 De-chlorine Bioceramic filter (option available for dummy, UF & UV, depending on source water.)
-  Eight language options including Hindi
-  1680 programmable options for setting pH & ORP levels according to your need
-  4 Way Cleaning method of Chamber
-  Display options for pH, ORP & Hydrogen reading
-  Automatic stop programming options available from 1 minute to 120 minutes
-  Fix value programming of pH & ORP available as per actuals
-  With RS Filter, IonGen Ionizer can give pH upto range 2 - 12 pH
-  Range of options 5, 7, 9, 11, 13 plates
-  100% made in Korea, US FDA, KFDA, Medical equipment certificate, and all other necessary certifications



All models compatible with Faucet

MODEL : MSB 05 PLATE | MSB 07 PLATE | MSB 09 PLATE | MSB 11 PLATE | MSB 13 PLATE

# POWERFUL SMPS POWER SYSTEM

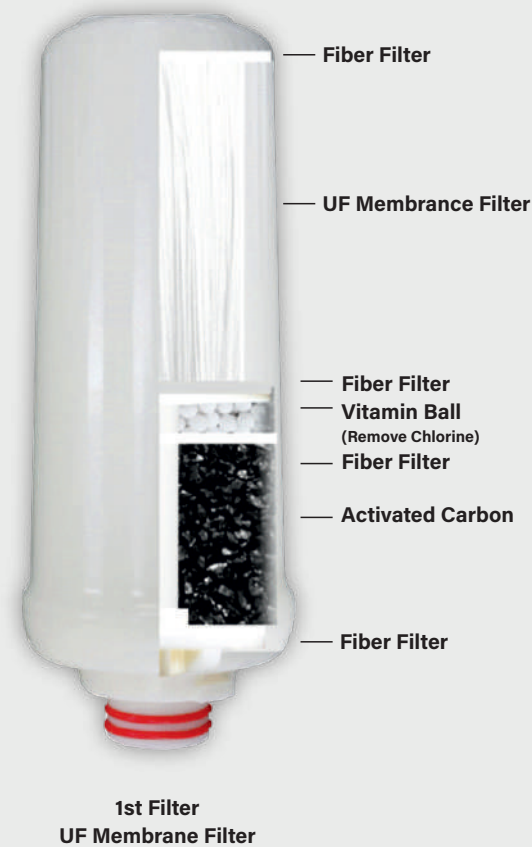
# PREMIUM DUAL FILTRATION SYSTEM (more options provided)

## MAX POWER SMPS SYSTEM

Fully Adjustable Power Up to 450 Watts ionizing power gives you the best pH and -ORP from your particular water source. SMPS provides more power, greater efficiency, and ultimate durability. Advanced Micom computer system

**POWERFUL SMPS POWER SYSTEM** is the most advanced system in the market to ensure that your water ionizer is producing the most powerful ionized water for years and years to come. Unlike the old outdated transformers, the SMPS system has been shown to last longer and run cooler. With the most up to date technology, you'll never have to worry about the pH, Hydrogen & ORP levels of your water ionizer.

**MSB05 | MSB07 | MSB09 | MSB11 | MSB13**



# PREMIUM DUAL FILTRATION SYSTEM

## CLEAN & FRESH MAX POWER SMPS SYSTEM

Premium Multi-Stage Media ULTRA DUAL Filtration System Dual filtration system is made up of multi level stage specialized media filter and a premium activated carbon filter. The Premium Activated Carbon filter is structured to improve the reduction of heavy metals and fluoride found in many city water sources. The silver activated carbon portion of the filter kills bacteria and keeps them from growing within the filter and being passed through to the electrolysis chamber. The multi level stage sediment filter reduces additional sediment particles in the water maintaining the life and performance of your water ionizer. It contains OF Membrane which will removes bacteria.

0.1 micron UF Filter

## FULL SIZE WIDE COLOR DISPLAY SCREEN

### SMART & PREMIUM TOUCH BUTTON & FULL SIZE WIDE COLOR PANEL

Full color display of pH levels, ORP levels, auto-diagnosis system, actual number of liters of filter life left in each filter, water flow rate, and more. Our Smart touch panel is users friendly & can be customized as per you needs.



### COMPLETE AUTO-DIAGNOSIS SYSTEM 1680 PROGRAMMABLE pH AND ORP LEVELS



longen Water ionizer continually monitors internal operating systems, ensuring that you are immediately notified in the highly unlikely event of a problem. longen water ionizer allows you to program nearly any pH, ORP & H2 combination, so as to customize your pH, ORP and H, water to the level that's right for you. This feature is essential due to the wide range of tap water quality in the world.

## 8 LANGUAGES VOICE SELECTION SYSTEM

### Easy & Smart

### 8 Languages Available

Eight Language Audio in Hindi, English, Chinese, Russian, Spanish, French, German, Italian



## Electrodes DURABILITY



According to the analysis of the test results:

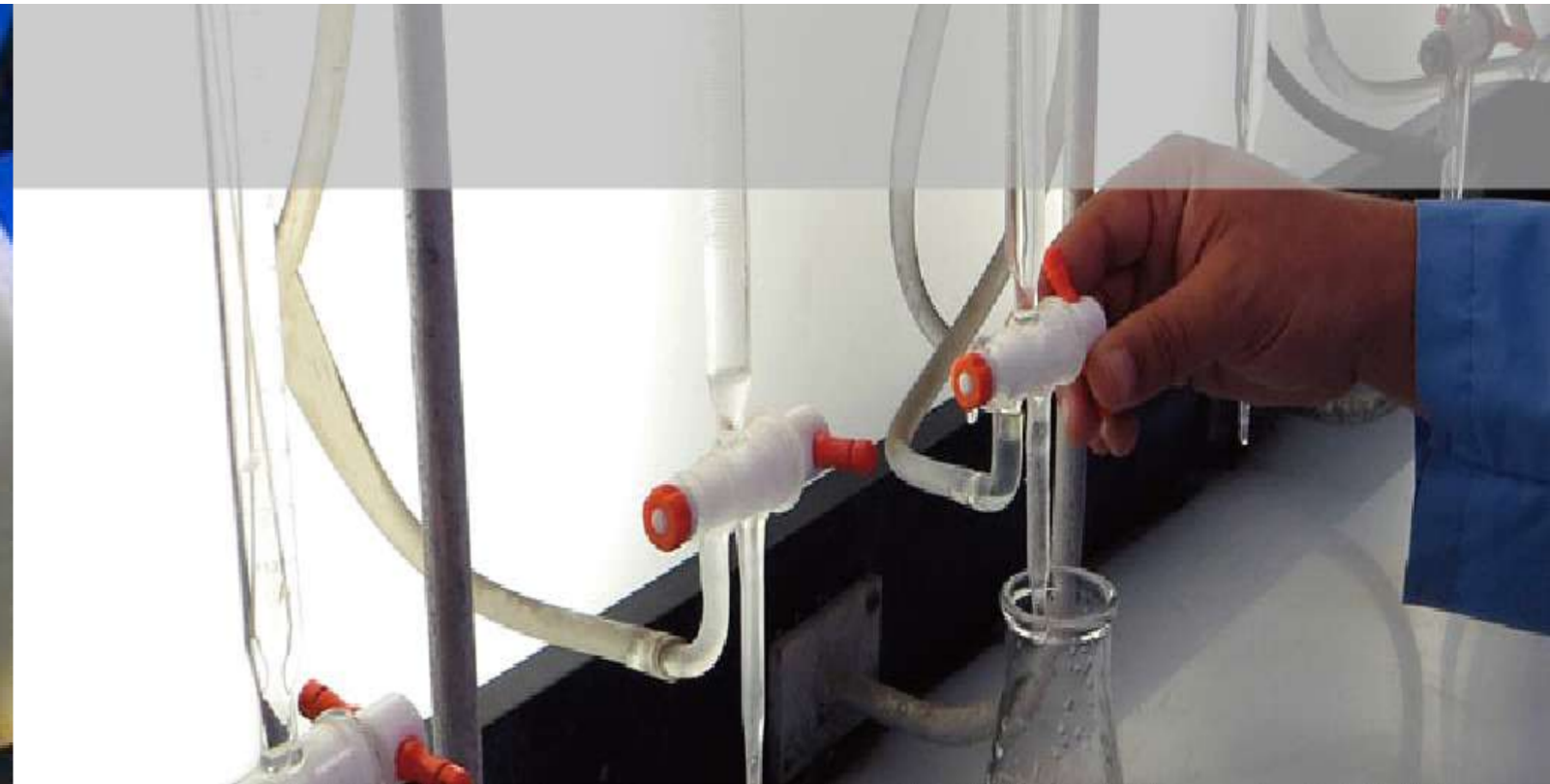
The tests were performed according to standard test methodology.

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: H<sub>2</sub>SO<sub>4</sub> 0.5mol / l on the electrolyte solution 40°C, 2A / d CM<sup>2</sup> 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	
n=	2 Pt 1 =	0.18	
n=	3 Pt 1 =	0.20	
n=	4 Pt 1 =	0.19	
n=	5 Pt 1 =	0.14	
n=	6 Pt 1 =	0.18	
n=	7 Pt 1 =	0.21	
n=	8 Pt 1 =	0.20	
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	
Operator:		20	

## Electrolytic Performance Water Cell Electrode Performance Test Results



NO	Data	Descriptions	Comments
1	Product	Electrolytic Alkaline Water Generator (BioPlus - 13Plates)	
2	Test Period	April 11, 2014 to March 27, 2011 (40 days)	Daily Journal kept
3	Total Discharge	36,000 liters (Four people using 10 L per day on average: about 20 years worth)	Standard - 360 day year
4	Basis of usage life	About 20 years + (2,000 hours +)	
5	Water pressure	2.5 Kg/CM <sup>2</sup>	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)	



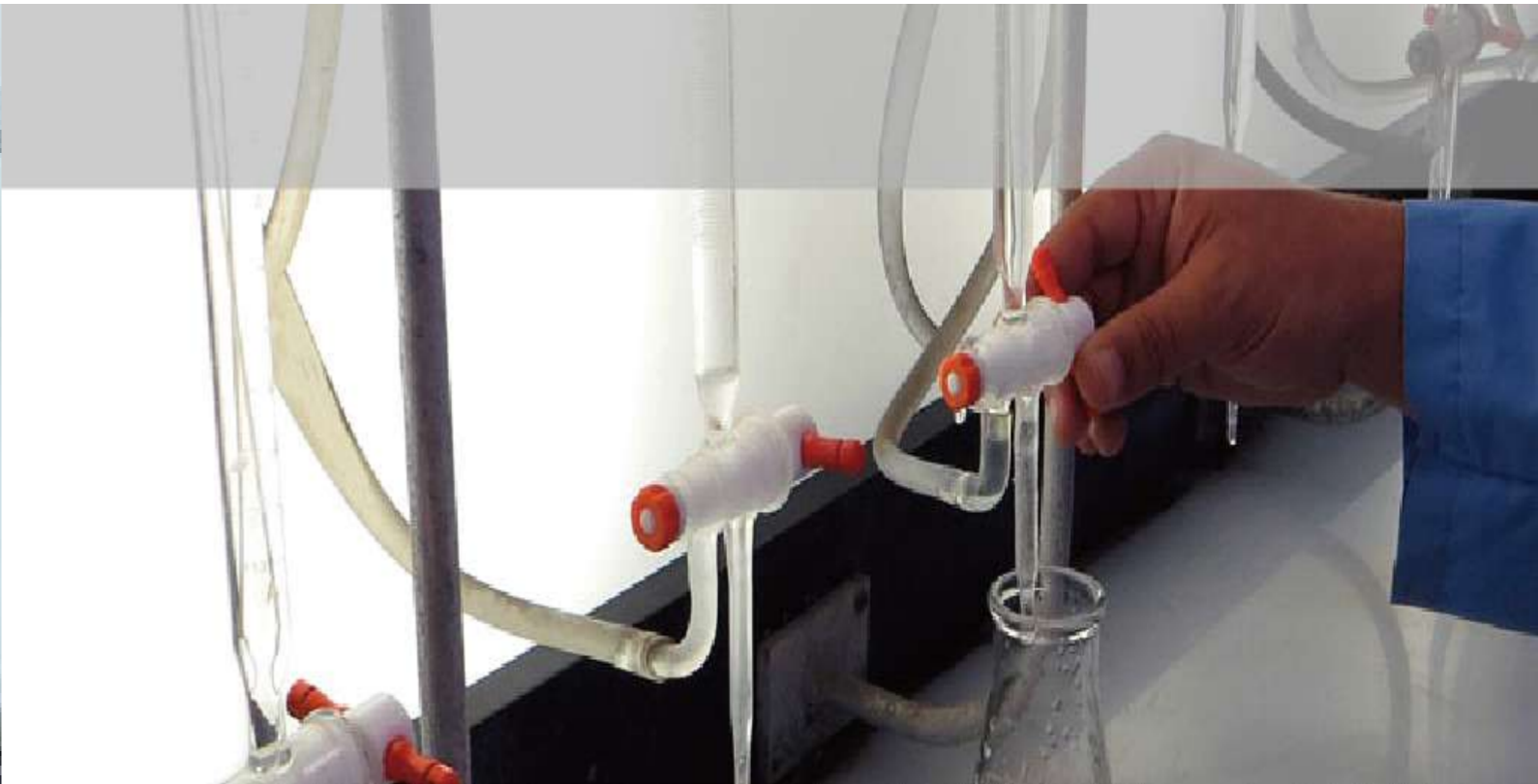
# Electrolytic Performance

## Water Cell Electrode Performance Test Results



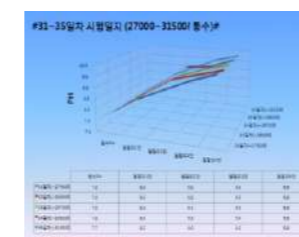
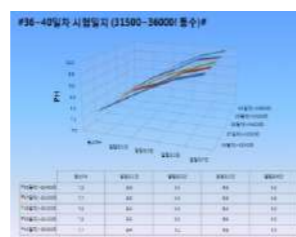
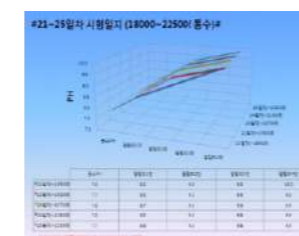
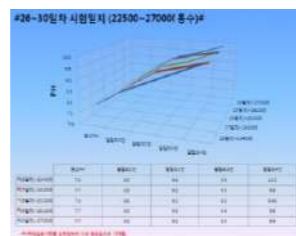
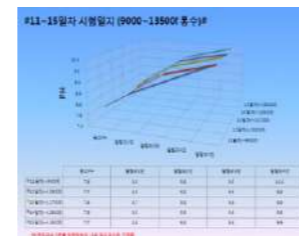
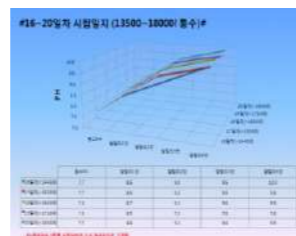
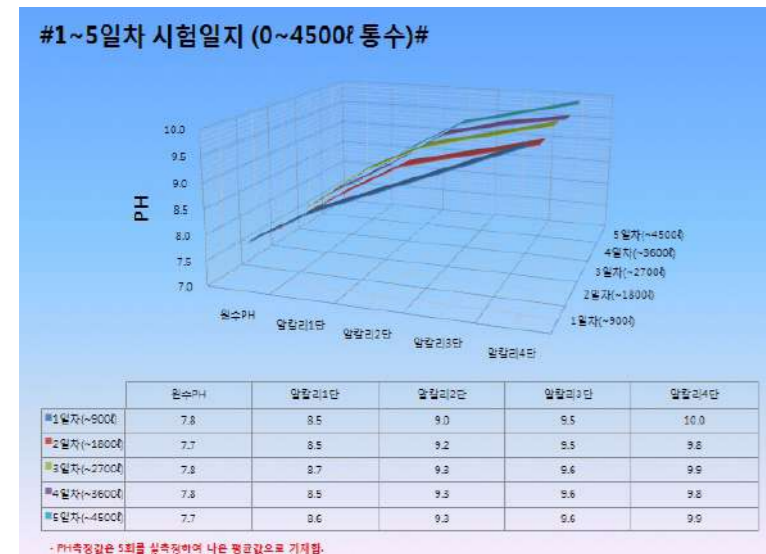
# Electrodes

## SAND BLASTING



### BioPlus Electrodes Performance

#### Electrolytic Performance 40 days test result



### Plates Sand Blasting Technology

#### Automatic Blast Guns & Traverse Moving System

In order to improve the performance of the Anode Oxide Coating between the metal and the substrate is closely a very important factor. Therefore, the Anode Oxide Coating system, it must be strictly the substrate pretreatment, such as degreasing, sand blasting and etching, etc.

Roughened titanium substrate including blasting and etching in two steps, wherein spray Sand is caused by Macro rough. Generally, considered: Blasting can remove the surface oxide film of titanium, exposing fresh Surfaces; Sand rough will make the surface of the compressive stress in the state is conducive surface coating and the substrate binding.





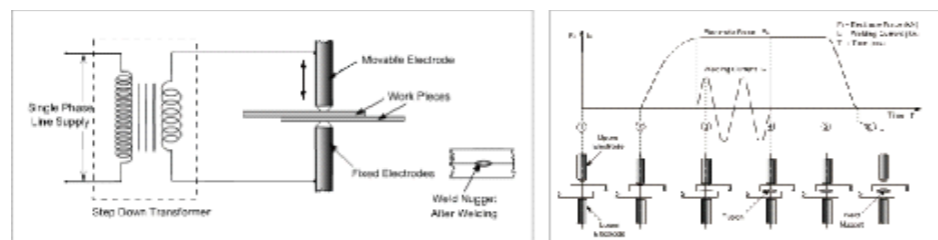
# SPOT WELDING



## Spot Welding Technology

In resistance spot welding, two or more sheets of metal are held between electrodes through which welding current is supplied for a defined time while force is exerted on the work pieces. The principle is illustrated in the figure on the left below.

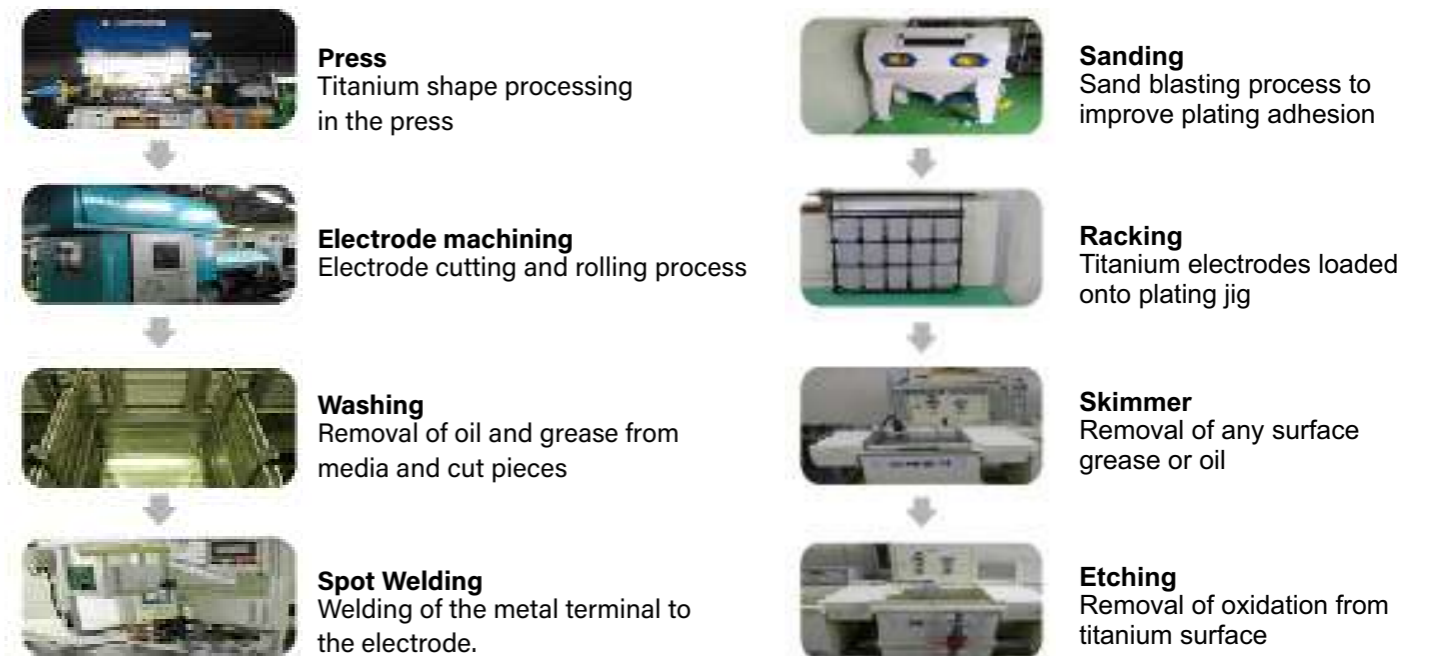
The welding cycle starts with the upper electrode moving and contacting the work pieces resting on lower electrode which is stationary. The work pieces are held under pressure and only then heavy current is passed between the electrodes for a preset time. The area of contact between metals is raised to welding temperature due to the flow of current through the contact surfaces of the work pieces. Pressure between the two electrodes squeezes the hot metal together thus completing the weld. The weld nugget formed is allowed to cool under pressure and then pressure is released. This total cycle is known as resistance spot welding cycle and is illustrated in the figure on the right below.



# PRODUCTION

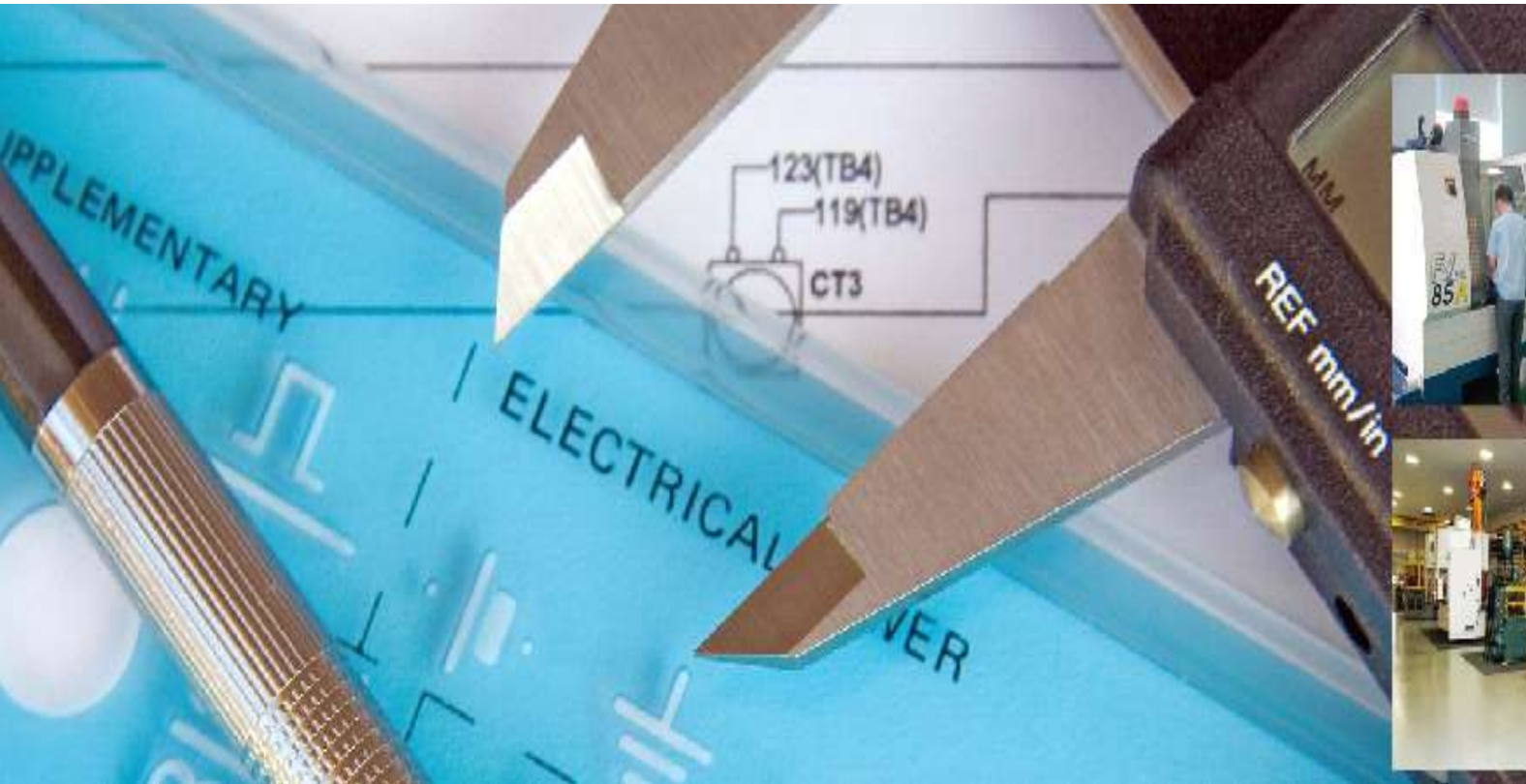


## Plate Production Process (1/2)





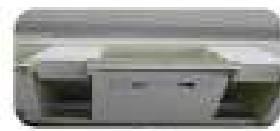
## PRODUCTION



## PLATING MEASURING



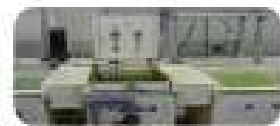
### Plate Production Process (2/2)



**Etching**  
Removal of oxidation from titanium surface



**Heat Treatment**  
Heat treated in furnace to strengthen adhesion of Platinum to titanium.



**Activator**  
Surface of titanium activated to improve plating adhesion



**Shipping Inspection**  
Reliability and appearance Inspection / Certificate of Inspection issued



**Platinum Plating**  
Titanium plated with platinum



**Packing/Shipping**

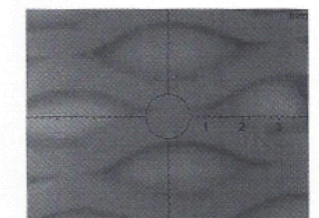


**Drying**  
Water is removed from the surface of the platinum

### Platinum Plating Measuring Technology

In order to improve the performance of the Anode Oxide Coating between the metal and the substrate is closely a very important factor. Therefore, the Anode Oxide Coating system, it must be strictly the substrate pretreatment, such as degreasing, sand blasting and etching, etc.

Roughened titanium substrate including blasting and etching in two steps, wherein spray Sand is caused by Macro rough. Generally, considered: Blasting can remove the surface oxide film of titanium, exposing fresh Surfaces; Sand rough will make the surface of the compressive stress in the state is conducive surface coating and the substrate binding.



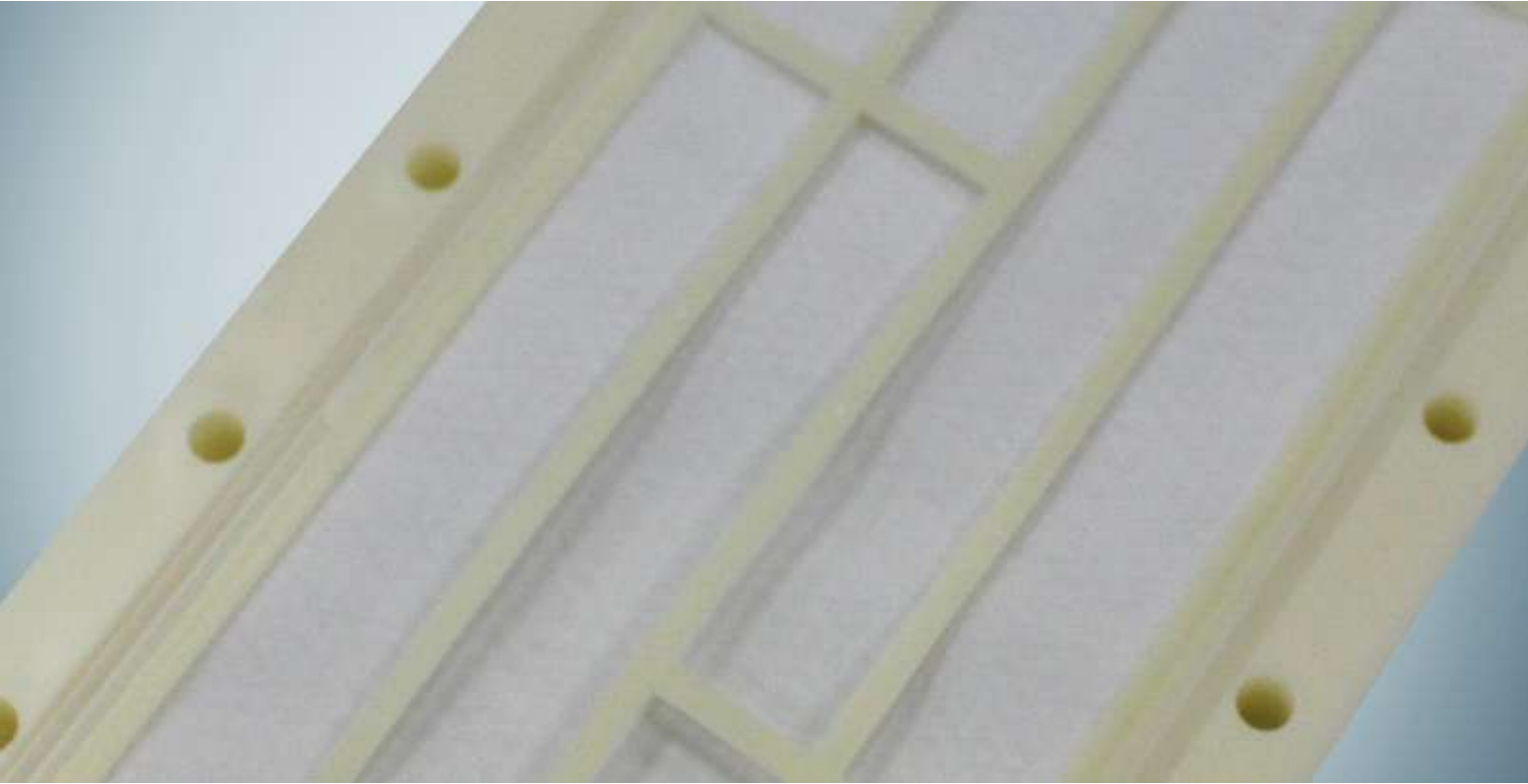
n=	1	Pt 1 =	0.158 um
n=	2	Pt 1 =	0.162 um
n=	3	Pt 1 =	0.163 um
n=	4	Pt 1 =	0.168 um
n=	5	Pt 1 =	0.169 um

Mean	0.164 um
Standard deviation	0.005 um
C.O.V. (%)	2.91
Range	0.012 um
Number of readings	5
Min. reading	0.158 um
Max. reading	0.169 um
Measuring time	5 sec

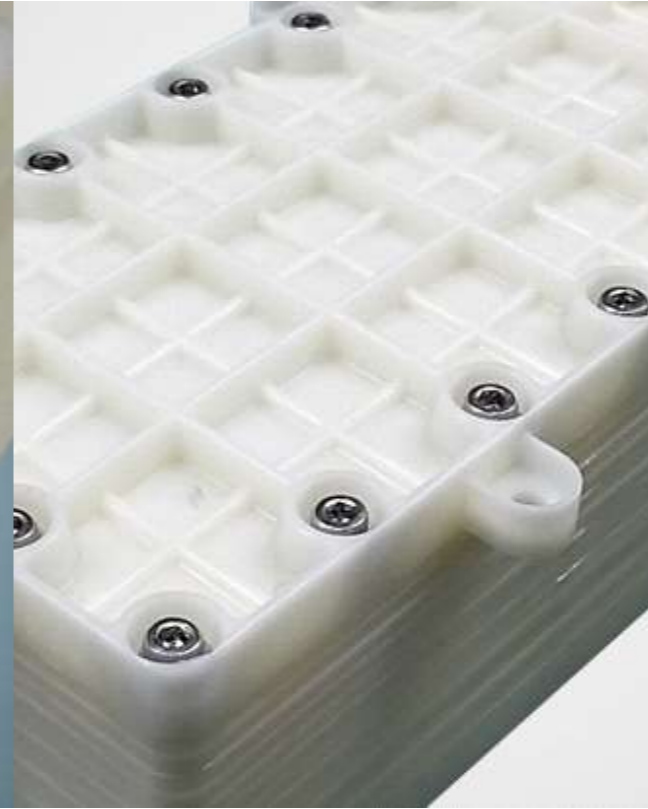




# PTEF



# SAFETY PLASTIC



## Safety Ion Exchange Membrane

Test Result(s)  
PART NAME No.1 : WHITE SHEET

Test Item(s)	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.

Test Item(s)	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.
Sum of PBDEs	mg/kg	With reference to IEC 62321-4: 2015 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

SGS Test Report

## Safety Plastic Materials

### Heavy Metals

Unit : mg/kg

Test Items	Results	MDL	Test Method
Pb	ND	5	ICP/OES, IEC 62321-5:2013
Cd	ND	2	
Cr	ND	2	
Hg	ND	1	Direct Mercury Analyzer, IEC 62321-4:2013

Component - Plastic E67171  
 LG CHEMICAL LTD  
 20 YODO-DONG, YONGGUNPO-GU, SEOUL 150-721 KR  
 HI121(8)  
 Acrylonitrile Butadiene Styrene (ABS), finished as pellets


Color	Min Thk (mm)	Flame Class	HVI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	HB	3	0	95	95	95
	3.0	HB	3	1	100	100	100

Comparative Tracking Index (CTI): 0  
 High-Voltage Arc Tracking Rate (HVTR): 2  
 Dielectric Strength (kV/mm): 27  
 Dimensional Stability (%): 0  
 High Volt, Low Current Arc Resis (D495): 6  
 Volume Resistivity (10<sup>12</sup> ohm-cm): 15

(8) - May be followed by optional suffix letter from A-Z incl, except F, and except Grades AF302G, H1740E, XR001B, L1912A, AF303G, AF302S.  
 ANSUL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSUL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.  
 Report Date: 1975-10-11  
 Last Revised: 2009-12-15  
 Underwriters Laboratories Inc®



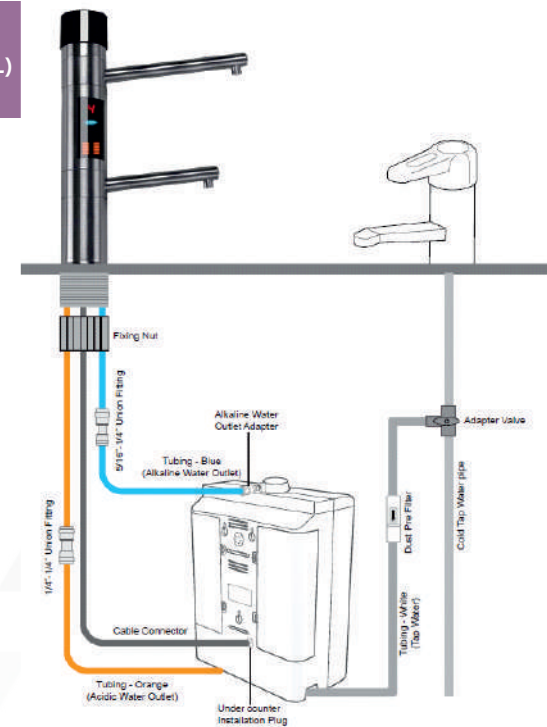
 Right Choice For Healthy Life		5 PLATES	7 PLATES	9 PLATES	11 PLATES	13 PLATES
<b>PRODUCT</b>	IonGen MSB05	IonGen MSB07	IonGen MSB09	IonGen MSB11	IonGen MSB13	
<b>Dimensions (CM)</b>	30(W)*38(H)*15.5(D)	30(W)*38(H)*15.5(D)	30(W)*38(H)*15.5(D)	30(W)*38(H)*15.5(D)	30(W)*38(H)*15.5(D)	
<b>Weight (KG)</b>	6	6	6.5	6.5	6.5	
<b>Body Color</b>	Silver	Silver	Silver	Silver	Silver	
<b>TYPE</b>	Counter Top & Under Counter	Counter Top & Under Counter	Counter Top & Under Counter	Counter Top & Under Counter	Counter Top & Under Counter	
<b>Under Counter convertible</b>	Yes	Yes	Yes	Yes	Yes	
<b>PLATES NUMBER</b>	5 Plates	7 Plates	9 Plates	11 Plates	13 Plates	
<b>Rated voltage</b>	220V	220V	220V	220V	220V	
<b>Plate Materials</b>	Platinum Titanium	Platinum Titanium	Platinum Titanium	Platinum Titanium	Platinum Titanium	
<b>Platinum Plating</b>	99.99% Platinum	99.99% Platinum	99.99% Platinum	99.99% Platinum	99.99% Platinum	
<b>Plate size (mm)</b>	125 X 60	125 X 60	125 X 60	125 X 60	125 X 60	
<b>Surface area (sq inch)</b>	116.11	162.55	209.01	255.44	301.89	
<b>Built in SMPS Device</b>	300 Watts	450 Watts	450 Watts	450 Watts	450 Watts	
<b>Cooling system</b>	Optional	Optional	Optional	Built in	Built in	
<b>Voice option</b>	8 language	8 language	8 language	8 language	8 language	

 Right Choice For Healthy Life		5 PLATES	7 PLATES	9 PLATES	11 PLATES	13 PLATES																		
<b>PRODUCT</b>	IonGen MSB05	IonGen MSB07	IonGen MSB09	IonGen MSB11	IonGen MSB13																			
<b>Alkaline Setting</b>	1~4	1~4	1~4	1~4	1~4																			
<b>Acidic Setting</b>	1~3	1~3	1~3	1~3	1~3																			
<b>Filtered Setting</b>	1	1	1	1	1																			
<b>pH range</b>	5.0 ~ 10.2	4.5 ~ 10.4	4.0 ~ 10.7	3.5 ~ 11	3.0 ~ 11.0 +																			
<b>ORP range</b>	Up to -400	Up to -600	Up to -700	UP to -750	Up to -800																			
<b>Water Flow</b>	<table border="1"> <tr> <td>Alkaline Output</td> <td>2.5~3</td> <td>3L</td> <td>3~4L</td> <td>5~6L</td> <td>5~6L</td> </tr> <tr> <td>Acidic Output</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Alkaline Output	2.5~3	3L	3~4L	5~6L	5~6L	Acidic Output																
Alkaline Output	2.5~3	3L	3~4L	5~6L	5~6L																			
Acidic Output																								
<b>Cleaning Method</b>	Automatic & Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual																			
<b>Filter number</b>	2	2	2	2	2																			
<b>Filter Life Span (Liters)</b>	5,000 ~ 8,000	5,000 ~ 8,000	5,000 ~ 8,000	5,000 ~ 8,000	5,000 ~ 8,000																			
<b>Filter media</b>	<table border="1"> <tr> <td>Filter 1</td> <td>Activated Carbon</td> <td>Activated Carbon</td> <td>Activated Carbon</td> <td>Activated Carbon</td> <td>Activated Carbon</td> </tr> <tr> <td>Filter 2</td> <td>Vitamin-C ceramic ball</td> <td>Vitamin-C ceramic ball</td> <td>Vitamin-C ceramic ball</td> <td>Vitamin-C ceramic ball</td> <td>Vitamin-C ceramic ball</td> </tr> <tr> <td></td> <td>Fiber Filter</td> <td>Fiber Filter</td> <td>Fiber Filter</td> <td>Fiber Filter</td> <td>Fiber Filter</td> </tr> </table>	Filter 1	Activated Carbon	Activated Carbon	Activated Carbon	Activated Carbon	Activated Carbon	Filter 2	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball		Fiber Filter	Fiber Filter	Fiber Filter	Fiber Filter	Fiber Filter					
Filter 1	Activated Carbon	Activated Carbon	Activated Carbon	Activated Carbon	Activated Carbon																			
Filter 2	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball	Vitamin-C ceramic ball																			
	Fiber Filter	Fiber Filter	Fiber Filter	Fiber Filter	Fiber Filter																			
<b>BPA Free Tubing(SGS)</b>	YES	YES	YES	YES	YES																			

# CERTIFICATION



## IONGEN FAUCET (OPTIONAL)



**Easy & Smart 8 Languages Available**

Eight Language Audio in Hindi, English, Chinese, Russian, Spanish, French, German, Italian