



BEST WATER SOLUTION HERE

[www.hongwonco.com](http://www.hongwonco.com)

**Hongwon Co., Ltd.**

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# Overview

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Hongwon Co., Ltd. is a leading environmental chemical manufacturing company specialized in “water treatment chemical solutions” – Poly Aluminum Chloride (Pac 10% & 17%), Aluminum Sulfate, Polyluminium Chloride (10%).

Our plant is located in Noksan Industrial Complex in Busan, Korea. We distribute waste and sewage treatment solutions in Korea, majorly in southern parts of Korea.

Also, we contribute to global environmental issues by supplying high quality water treatment solutions overseas such as, Vietnam, Indonesia and African countries.

We operate own R&D institute with professional environmental science specialists. So, we can supply highly managed products to customers in various needs.

We will constantly try our best to make the best quality products to satisfy our customers' requirements as well as to contribute to world's environment preservation efforts.



Hongwon Co, Ltd. Headquarter - Busan, Korea

# Research & Development

Products of Hongwon Co., Ltd. are all certified by KS (Korean Industrial Standards), Q-Mark (Quality mark), Korea Eco-Label. Polyma (8% & 10%) is innovatively patent registered by Korean Intellectual Property Office. (10-1752276). Our professional environmental science specialists strictly monitor and maintain product quality and research for future innovative products.



Hongwon Co, Ltd. Product Certifications



Hongwon Co, Ltd. Research Lab

# Product-PAC 10% & 17%: High Basicity



- ◆ This Product can be used as high basicity coagulant in city water purification plant, T-P removing agent in sewage plant, and coagulant in common wastewater.
- ◆ No requirement for neutralization
- ◆ Excellent stability in very cold season (below-20 °C)
- ◆ Excellent in removing T-P
- ◆ KS(Korean Industrial Standards)
- ◆ Korea Eco-Label(Eco-Friendly)

ITEM	UNIT	KOREAN STANDARDS		OUR PRODUCTS	
		PAC 10%	PAC17%	PAC10%	PAC17%
Color	-	Colorless or light yellowish brown	Colorless or light yellowish brown	qualified	qualified
Test	-	Verification Test	Verification Test	qualified	qualified
Gravity	-	Min. 1.19	Min. 1.19	1.209	1.361
pH	-	3.5 ~ 5.0	3.5 ~ 5.0	4.10	4.10
Al <sub>2</sub> O <sub>3</sub>	%	10.0 ~ 12.0	15.0 ~ 18.0	10.3	17.0
Basicity	%	Min. 35	Min. 35	45	44
SO <sub>4</sub> <sup>2-</sup>	%	Max. 3.5	Max. 3.5	0.1	0.2
NH <sub>3</sub> -N	%	Max. 0.01	Max. 0.01	N.D	N.D
Fe	%	Max. 0.01	Max. 0.01	0.0011	0.0012
As	ug/g	Max. 5	Max. 5	N.D	N.D
Pb	ug/g	Max. 10	Max. 10	N.D	N.D
Cd	ug/g	Max. 2	Max. 2	N.D	N.D
Cr	ug/g	Max. 10	Max. 10	N.D	N.D
Mn	ug/g	Max. 25	Max. 25	N.D	N.D
Hg	ug/g	Max. 0.2	Max. 0.2	N.D	N.D

# Product-Polyma1(8%) & Polyma2(10%): Low Basicity



- ◆ This product can be used as coagulant in city water purification plant, T-P removing agent in sewage plant, and coagulant in common wastewater.
- ◆ Suitable for the water treatment specification of purification plants.
- ◆ Magnesium compound is added to Aluminum based coagulant.
- ◆ Excellent in both high and low turbidity water
- ◆ Korea Eco-Label (Eco-Friendly), Green Technology Label, Patent-registered (10-1752276)

ITEM	UNIT	KOREAN STANDARDS		OUR PRODUCTS	
		Polyma1(8%)	Polyma2(10%)	Polyma1(8%)	Polyma2(10%)
Color	-	Colorless or light yellowish brown	Colorless or light yellowish brown	qualified	qualified
Test	-	Verification Test	Verification Test	qualified	qualified
Gravity	-	Min. 1.19	Min. 1.19	1.209	1.266
pH	-	3.5 ~ 5.0	3.5 ~ 5.0	4.0	4.10
Al <sub>2</sub> O <sub>3</sub>	%	8.0 ~ 10.0	Min. 10.0	8.8	10.7
Basicity	%	5 ~ 30	5 ~ 30	14.6	12.9
SO <sub>4</sub> <sup>2-</sup>	%	Max. 3.5	Max. 3.5	0.3	0.2
NH <sub>3</sub> -N	%	Max. 0.01	Max. 0.01	N.D	N.D
Fe	%	Max. 0.01	Max. 0.01	0.0007	0.0012
As	ug/g	Max. 5	Max. 5	N.D	N.D
Pb	ug/g	Max. 10	Max. 10	N.D	N.D
Cd	ug/g	Max. 2	Max. 2	N.D	N.D
Cr	ug/g	Max. 10	Max. 10	N.D	N.D
Mn	ug/g	Max. 25	Max. 25	N.D	N.D
Hg	ug/g	Max. 0.2	Max. 0.2	N.D	N.D
Mg	%	Min. 0.2	Min. 0.2	0.25	0.27

# Product-Aluminum Sulfate Coagulant



- ◆ This product can be used as coagulant in city water purification plant, T-P removing agent in sewage plant, and coagulant in common wastewater.
- ◆ Liquefied
- ◆ Wide uses for various qualities of water
- ◆ Excellent in chemical stability
- ◆ Cost effective
- ◆ Korea Eco-Label(Eco-Friendly Registration)

ITEM	UNIT	KOREAN STANDARDS	OUR PRODUCT
Color	-	Yellowish brown	qualified
Test	-	Verification Test	qualified
pH	-	Min. 3.0	3.8
Al <sub>2</sub> O <sub>3</sub>	%	Min. 8.0	8.1
NH <sub>3</sub> -N	%	Max. 0.01	N.D
Fe	%	Max. 0.3	0.0038
As	ug/g	Max. 10	N.D
Pb	ug/g	Max. 10	N.D
Cd	ug/g	Max. 2	N.D
Cr	ug/g	Max. 10	N.D
Mn	ug/g	Max. 25	N.D
Hg	ug/g	Max. 2.5	N.D



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