



DIACHLOR® SERIES SUPER COAGULANT

WHAT IS DIACHLOR® SUPER COAGULANT?

Our super coagulant is special formulated polyaluminium chloride (PAC) having high concentration of polymerized aluminium chain.

Our super coagulant promotes sustainability with **ZERO WASTE** production.

Our super coagulant produces **HEALTHY** drinking water because it leaves very minimal (sometimes undetectable) traces of residue aluminium, which has been linked to adverse health effects.

Our super coagulant is **ENVIRONMENTALLY FRIENDLY** because it produces less hazardous sludge in water and wastewater treatment.



DIACHLOR® PRODUCTS RANGE

- Polyaluminium Chloride (PAC) Type 1
- Polyaluminium Chloride (PAC) Type 2
- Polyaluminium Chloride (PAC) Type 3
- Aluminium Chlorohydrate (ACH)



**ENVIROMENTAL
FRIENDLY**



**LESS SLUDGE
PRODUCTION**



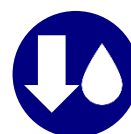
COST SAVING



**STRONGER &
DENSER FLOC**



**SAFE IN FOOD &
PHARMA INDUSTRY**



**LESS DOSAGE
LESS CONSUMPTION**

DIACHLOR® PAC TYPE 1

SUPER COAGULANT FOR DRINKING WATER & WASTEWATER TREATMENT

Specifications for DIACHLOR® Polyaluminium Chloride (PAC) Type 1

Parameter	Unit	Type 1
Density (Ambient temperature)	g/ml	1.13 - 1.23
Aluminium Oxide (Al ₂ O ₃)	% w/w	10, min
Basicity	% w/w	35 - 83
pH	1% w/v solution	3.5 - 5.0
Sulphate ion (SO ₄ ²⁻)	% w/w	3.5, max
Insoluble matter	% w/w	1
Total Iron (Fe)	% w/w	0.05
Ammoniacal Nitrogen (N)	% w/w	0.01
Arsenic (As)	mg/kg	2.4
Manganese (Mn)	mg/kg	17.9
Cadmium (Cd)	mg/kg	3.0
Chromium (Cr)	mg/kg	41.9
Mercury (Hg)	mg/kg	0.6
Nickel (Ni)	mg/kg	41.9
Lead (Pb)	mg/kg	12.0
Antimony (Sb)	mg/kg	2.4
Selenium (Se)	mg/kg	2.4



**DIACHLOR®
PAC Type 1**



1157-03/2012

Key Features

- Readily available in liquid form and use as received
- Remain as clear liquid and stable over time
- Packaging available in carboys, IBC tote bin, and flexibag
- High basicity requires less alkali
- Effective in water & wastewater treatment system
- Stable & consistent quality
- Applicable in any process requires clarification
- Work in high and low temperature environments



Certified to
NSF/ANSI/CAN 60



SIRIM

Certified to: MS 1454: 2007
Certification number: PC005237

For enquiries:

E-mail: info@dia-chemical.com

Contact: +603-7845 7895

Manufactured by DIA-Chemical Sdn. Bhd. whose quality management system is certified to ISO 9001:2015 by SIRIM QAS International.

DIACHLOR® PAC TYPE 2

SUPER COAGULANT FOR DRINKING WATER & WASTEWATER TREATMENT

Specifications for DIACHLOR® Polyaluminium Chloride (PAC) Type 2

Parameter	Unit	Type 2
Density (Ambient temperature)	g/ml	1.18 - 1.35
Aluminium Oxide (Al ₂ O ₃)	% w/w	15, min
Basicity	% w/w	35 – 83
pH	1% w/v solution	3.5 - 5.0
Sulphate ion (SO ₄ ²⁻)	% w/w	3.5, max
Insoluble matter	% w/w	1
Total Iron (Fe)	% w/w	0.05
Ammoniacal Nitrogen (N)	% w/w	0.01
Arsenic (As)	mg/kg	3.7
Manganese (Mn)	mg/kg	28.1
Cadmium (Cd)	mg/kg	4.7
Chromium (Cr)	mg/kg	65.6
Mercury (Hg)	mg/kg	0.9
Nickel (Ni)	mg/kg	65.6
Lead (Pb)	mg/kg	18.7
Antimony (Sb)	mg/kg	3.7
Selenium (Se)	mg/kg	3.7



**DIACHLOR®
PAC Type 2**



1157-03/2012



Certified to
NSF/ANSI/CAN 60



SIRIM

Certified to: MS 1454: 2007
Certification number: PC005237

Key Features

- Readily available in liquid form and use as received
- Remain as clear liquid and stable over time
- Packaging available in carboys, IBC tote bin, and flexibag
- High basicity requires less alkali
- Effective in water & wastewater treatment system
- Stable & consistent quality
- Applicable in any process requires clarification
- Work in high and low temperature environments

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DIACHLOR® PAC TYPE 3

SUPER COAGULANT FOR DRINKING WATER & WASTEWATER TREATMENT

Specifications for DIACHLOR® Polyaluminium Chloride (PAC) Type 3

Parameter	Unit	Type 3
Density (Ambient temperature)	g/ml	1.32 - 1.38
Aluminium Oxide (Al ₂ O ₃)	% w/w	22, min
Basicity	% w/w	> 83
pH	1% w/v solution	3.5 - 5.0
Sulphate ion (SO ₄ ²⁻)	% w/w	3.5, max
Insoluble matter	% w/w	1
Total Iron (Fe)	% w/w	0.05
Ammoniacal Nitrogen (N)	% w/w	0.01
Arsenic (As)	mg/kg	2.2
Manganese (Mn)	mg/kg	6.1
Cadmium (Cd)	mg/kg	0.5
Chromium (Cr)	mg/kg	4.6
Mercury (Hg)	mg/kg	0.6
Nickel (Ni)	mg/kg	3.1
Lead (Pb)	mg/kg	6.1
Antimony (Sb)	mg/kg	3.1
Selenium (Se)	mg/kg	3.1



**DIACHLOR®
PAC Type 3**



1157-03/2012



Certified to
NSF/ANSI/CAN 60



SIRIM

Certified to: MS 1454: 2007
Certification number: PC005237

Key Features

- Readily available in liquid form and use as received
- Remain as clear liquid and stable over time
- Packaging available in carboys, IBC tote bin, and flexibag
- High basicity requires less alkali
- Effective in water & wastewater treatment system
- Stable & consistent quality
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DIACHLOR® ACH

SUPER COAGULANT FOR DRINKING WATER & WASTEWATER TREATMENT

Specifications for DIACHLOR® Aluminium Chlorohydrate (ACH)

Parameter	Unit	ACH
Density (Ambient temperature)	g/ml	1.32 - 1.38
Aluminium Oxide (Al ₂ O ₃)	% w/w	23, min
Basicity	% w/w	> 83
pH	1% w/v solution	3.5 - 5.0
Sulphate ion (SO ₄ ²⁻)	% w/w	3.5, max
Insoluble matter	% w/w	1
Total Iron (Fe)	% w/w	0.05
Ammoniacal Nitrogen (N)	% w/w	0.01
Arsenic (As)	mg/kg	2.2
Manganese (Mn)	mg/kg	6.1
Cadmium (Cd)	mg/kg	0.5
Chromium (Cr)	mg/kg	4.6
Mercury (Hg)	mg/kg	0.6
Nickel (Ni)	mg/kg	3.1
Lead (Pb)	mg/kg	6.1
Antimony (Sb)	mg/kg	3.1
Selenium (Se)	mg/kg	3.1



**DIACHLOR®
Aluminium
Chlorohydrate**



1157-03/2012



Certified to
NSF/ANSI/CAN 60

Key Features

- Readily available in liquid form and use as received
- Remain as clear liquid and stable over time
- Packaging available in carboys, IBC tote bin, and flexibag
- High basicity requires less alkali
- Effective in water & wastewater treatment system
- Stable & consistent quality
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TESTIMONIAL

DIACHLOR® SERIES SUPER COAGULANT JAR TEST OBSERVATION

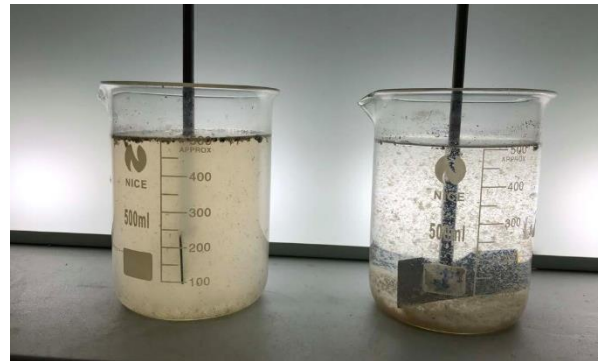


Raw
wastewater

Treated with
PAC

Treated with
DIACHLOR™

Jar Test for Caramel Refinery Wastewater



With 10ppm
PAC

With 10ppm
DIACHLOR™

Jar Test for Oil Refinery Wastewater

Above pictures show a comparison between conventional PAC & DIACHLOR® PAC performance towards industrial wastewater applications.

The comparisons were conducted under optimum conditions of conventional PAC and DIACHLOR® PAC with the similar grade and dosage.

OUR PRODUCTS

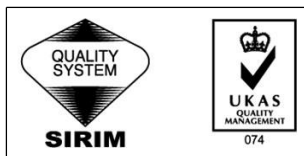
- DIACHLOR® SERIES COAGULANTS
- POLYFLOC SERIES FLOCCULANTS
- OTHER SPECIALTY CHEMICALS
 - EMULSION BREAKER EL-1000
 - AMMONIA REMOVAL AMRemove-1000
 - BIOGAS BOOST 1000

OUR SERVICES

- JAR TEST ANALYSIS
- BIOMETHANE POTENTIAL MEASUREMENT
- WATER & WASTEWATER ANALYSIS
- ENGINEERING SERVICES
- TURNKEY PROJECT FOR TREATMENT PLANTS
- EPCC FOR TREATMENT PLANTS

For more details, please visit us at www.dia-chemical.com

CERTIFIED BY



CERTIFIED TO ISO 9001:2015
CERT. NO.: QMS 03673



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