

BUSINESS LINES



- Industrial & Specialty Chemicals
- Coagulant & Flocculant
- Degreaser & Oil Spill Dispersant
- Chemical Cleaning



- Waste & Water Treatment Plant (Conventional, AOP, and Membrane System Technologies)
- ZEFACARB - Activated Carbon
- Cartridges & Various of Filter Media
- Industrial Maintenance Product (Bulk)
- Oilfield Chemicals



- Coconut Shell Activated Carbon



mikropor

- Air, Gas & Liquid Purification
- Air Intake Filters
- Gas Turbine Filters
- HVAC, HEPA & ULPA Filters



A Revolutionary Bioreactor and Aeration in One

- No Sludge
- No Odor



- Dosing Pumps & Instruments



- HeavyDuty & Marine
- Spaldex



- Vibra Screen Separator
- Dryers
- Crusher / Size Reduction & Mixer

COMPANY INTRODUCTION



PT ZEFA VALINDO JAYA

Water and Air Treatment

ZEFA COMPANY INTRODUCTION

PT ZEFA VALINDO JAYA is a private investment national company in Indonesia was established since 1999 which is developing very rapidly. The products and services of our company range from Waste & Water Treatment, Specialty Chemicals, Coatings, Equipments, Gas Turbines Cleaners, Filters and Industrial Maintenance Products & Services. Our company has been successfully applying the quality management system as per ISO 9001:2015 with Certificate Registration No. DCIQ-171101.

Our company started stands as one of the formulators to providing specialty chemicals in Indonesia, either as a local manufacturer or as an agent for foreign manufacturers. We have been appointed the Sole Agents for MINCO UK.Ltd, Gas Turbine Cleaner. And our product-services being much more completed by since early 2009 we have been appointed the sole agent in Indonesia for one of the world class manufacturer of filters MIKROPOR, Turkey the specialized in Gas, Air, and Liquid Filtration especially Gas Turbine Air Intake Filtration to serve market in Indonesia

As per today we have been working both for supplying and contracting for many national and multinational companies which is continually developing in very good or mutualism of cooperation refer to our specialize to help our clients meeting their requirements; thereby many of our Clients are satisfied and have been our long-life business clients.

Our customers are categorized from various industries, for example, Marines, Palm Oil Mill, Pulp & Paper, Textile, Steels Mill, Cold Storage, Food & Beverages, Refineries, Chemical Plants, Hotels, Public & Commercial Building, Oil & Gases, and Private and State owned Power Plants.

Many of our satisfied customers have a reason to stay with us.

Our service motto is 'We Treat It Right' and PT ZEFA VALINDO JAYA will always be a leader in business based Technology, by investing in education and developing experienced human resources to ensure products quality and best services to our loyal customers.

PT. ZEFA VALINDO JAYA

Efendi Sitorus
Managing Director

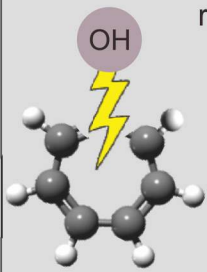
VISI & MISI

- Visi** Melayani lebih baik dan berkembang melampaui batas-batas
- Vision** *To serve better and grow beyond boundaries*
- Misi** Menjadikan ZEFA sebagai prioritas pilihan bagi pelanggan dan mitra bisnis, dengan mengedepankan solusi dan teknologi yang ramah lingkungan, berhasil, berkarakter dan bermanfaat untuk kehidupan yang lebih baik
- Mission** *To place ZEFA as one of the modern leading business partner, top priority for the customer choice by offering solution with environment friendly technologies, successfully, characteristic and helpfully for the better life*

ADVANCED OXIDATION PROCESS (AOP)

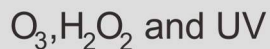
The solution for Heavy, Toxic & Non Biodegradable Wastewater

what Is AOP...?



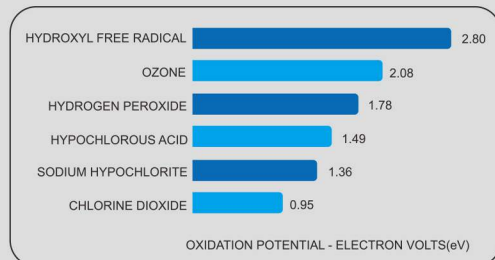
The process utilize radical (OH) - a highly reactive oxidant that destroy most pollutant in water

(OH) generated from combination of powerful oxidants



why Must OH Radical...?

Because it is the most powerful oxidator that currently can be created by human

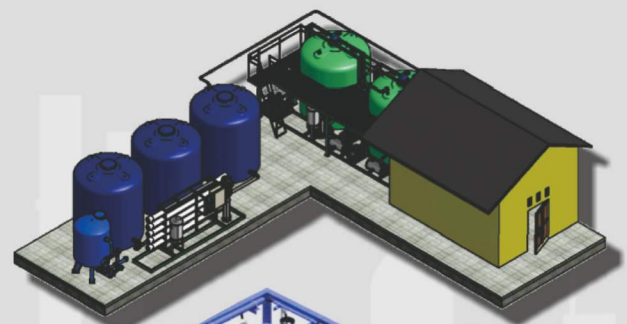
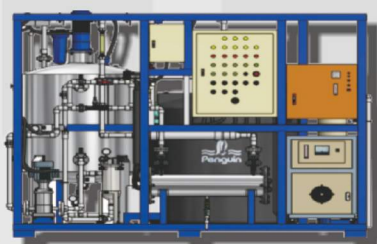
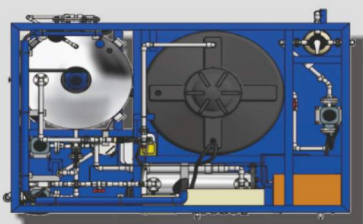


Real Plant



Tanggal	TDS (mg/L)			TSS (mg/L)			pH (pH Units)		BOD (mg/L)			COD (mg/L)			Phenol (mg/L)		
	In	Out	Eff	In	Out	Eff	In	Out	In	Out	Eff	In	Out	Eff	In	Out	Eff
16-Mar-16	6700	119	98.2	78	2	97.4	8.23	7.99	1440	3	99.8	3200	6	99.8	1.15	<0.005	99.6
18-Apr-16	6240	91	98.5	118	2	98.3	8.0	8.2	900	2.2	99.8	2000	<23	98.9	0.82	<5	
17-May-16	10900	87	99.2	142	4	97.2	8.48	8.31	2882	7.5	99.7	4969	16	99.7	0.78	<0.01	98.7

General Arrangement





CHEMICAL FOR R/O DESALINATION TREATMENT

P 07 WT	Digunakan pada pengadaan air bersih untuk melindungi pipa-pipa dari karat dan pengendapan kerak. Menambah kejernihan air karena adanya kemampuan untuk mengendapkan partikel-partikel dalam air (floculating ability)	MBC-11	Untuk membersihkan senyawa organik, endapan dan partikel lainnya pada permukaan membrane dalam mempertahankan recovery dan life time membrane.
ZF-100	Sebagai multi fungsi inhibitor untuk mengatasi Calcium carbonate, Calcium sulphate, Barium sulphate dan Strontium sulphate	SODIUM SULPHITE	Untuk menetralkan residual chlorine dan sebagai oxy scavenger, sbg pretreatment RO.
ZF-260	Efektif sebagai pengontrol kerak dan dispersant dalam membrane system	SODIUM HYPOCHLORITE	Membasmi bakteri dan mikroorganisme secara cepat (oxidator)
FC 703	Sebagai <i>floculant aid</i> pada R/O Desalination dan WTP	ZV-A	Sebagai pengontrol formasi kerak alkalin pada semua jenis penyulingan air laut
MBC-3	Untuk membersihkan metal hidroksida, Calcium carbonate dan kerak sejenis lainnya dari permukaan membrane yang berbahan poliamide, polisulfon dan lapisan tipis film	ZV-M8	Sebagai pencegah terbentuknya busa (foaming) pada penyulingan air laut

CHEMICAL FOR FILTRATION AIDS AND OTHERS

KP 35 AC	Untuk proses penjernihan air/coagulant atau proses daur ulang (water/waste treatment/sewage treatment)
SP 111 AS	Untuk mengatur/menaikkan pH pada air (water/waste treatment). Umumnya digunakan pada proses pemurniaan air (penjernihan air)
C 492 H	Sebagai floculant pada WTP, WWT, Thickener, Belt Press, dsb.
FC-A	Digunakan untuk proses pengolahan limbah dengan kadar logam tinggi
FC-N	Digunakan untuk proses penjernihan air baik pada WTP/STP/WWT
BIO-FAST	Bersifat multipurpose menguraikan limbah-limbah organik dan menghilangkan bau (Deodorizer)

CHEMICAL AS INHIBITOR & OTHER

P 577 (PLUS)	Sebagai inhibitor konsentrat untuk asam (HCl, H2SO4, dsb)
C547	Inhibitor acid
BIO-DEGRADE TAB	Konsorsium bakteri & enzim untuk degradade FOG (Fate, Oil & Grease). Sangat baik digunakan untuk STP (Domestik Sewage Treatment Plant)
COP 900	Coagulant organik



CHEMICAL FOR BOILER WATER TREATMENT

TS 125	Menyerap oksigen dan membentuk magnetik film "Iron Tannate" (mencegah korosi). Mendispersikan kristal-kristal hardness menjadi partikel-partikel halus dan mudah dibuang melalui flushing/blowdown	MK 01	Dapat menetralkan asam-asam karbonat pada kondensat, sehingga dapat mencegah korosi pada pipa-pipa kondensat H/E atau evaporator
P 311	Mendispersikan atau melunakkan dan melicinkan partikel-partikel endapan sehingga mudah terbuang dari dalam boiler melalui blowdown	MK 02	Dapat mencegah korosi pada pipa-pipa kondensat atau kalorifier dengan lapisan "filming amines"
PP 205	Mencegah kerak dengan mengendapkan garam-garam hardness menjadi partikel-partikel lumpur (sludge) yang dapat dibuang melalui blowdown sehingga tidak menjadi kerak.	OX 35	Mencegah terjadinya korosi dan untuk menyerap oksigen pada boiler atau deaerator, khususnya pada boiler bertekanan tinggi dimana penggunaan Sulphite atau Tannin tidak memungkinkan lagi
A 055	Mengatur/menaikkan pH, alkalinitas air, serta mencegah kerak silikat dan penetrasikan pasca pencucian boiler/collet/Heater	P 99	Sebagai presipitan untuk mengendapkan garam-garam kalsium menjadi sludge, sehingga tidak terbentuk kerak, biasanya digunakan pada medium & high pressure boiler.
SP 21	Menyerap gas-gas oksigen didalam air boiler sehingga dapat mencegah korosi dengan sangat baik (Pitting Corrosion Prevention)	DP 3117	Sludge dispersant konsentrat yang sangat efektif untuk berbagai keperluan water treatment, khususnya sebagai bahan cleaner ataupun anti scalant dan baik dipakai untuk thermal desalination.
MP 115	Multipurpose/ dapat mencegah kerak dan korosi serta dapat menghancurkan partikel-partikel kerak dalam boiler sehingga tidak terjadi kerak dan korosi.	FUELRIGHT	
T 012	Menyerap oksigen dan membentuk magnetik film "Iron Tannate" (mencegah korosi). Mendispersikan kristal-kristal hardness menjadi partikel-partikel halus dan mudah dibuang melalui flushing/blowdown	FR 001	Meningkatkan efisiensi dalam minyak bakar cair (diesel). Mengurangi deposit-deposit pada ruang akar. Menyempurnakan pembakaran (peningkatan kalori dan efisiensi BBM)
		FR 002	Meningkatkan efisiensi dalam minyak bakar padat seperti Batubara. Mengurangi deposit-deposit pada ruang bakar. Menyempurnakan pembakaran (peningkatan kalori dan efisiensi BB)

CHEMICAL FOR COOLING/CHILLER WATER TREATMENT

CTC 400	Mencegah kerak dan korosi pada H/E (Evaporator) dengan spesifikasi very corrosive water LSI = 0	CA 202	Membasmi lumut dan mikroba lainnya (Biofouling), bersifat stabil dan dapat dikombinasikan dengan biosida lain yang konvensional, dengan active component hydroxymethylphosphoniumchlorite
CTC 403	Mencegah kerak dan korosi pada H/E (Evaporator), dengan tendency max terhadap anti korosi LSI = 0 - 1,5	CB 303	Sebagai biosida berspektrum luas yang efektif membasmi segala bakteri dan mikroorganisme dalam cooling system. Sangat efektif membasmi bakteri <i>Legionella pneumophila</i>
CTC 404	Mencegah kerak dan korosi pada H/E (Evaporator) dengan spesifikasi moderate water LSI = 1 - 2	CB 1	Membasmi lumut dan mikroba lainnya (Biofouling). Bersifat stabil dan dapat dikombinasikan dengan biosida lain yang konvensional, dengan active component NABAM/DIBAM
CTA 500	Mencegah kerak dan korosi pada H/E (Evaporator) dengan LSI = 2 (± 0,5), multipurposes severe service condition	CB 2	Sebagai biosida berspektrum luas yang efektif membasmi segala bakteri dan mikroorganisme dalam cooling system, dengan bahan aktif bersifat oksidator cepat membunuh mikro-organisme.
CTS 504	Mencegah kerak dan korosi pada H/E (Evaporator) dengan LSI = 2 - 3, Severe water	CB 3	Sebagai biosida berspektrum luas yang efektif membasmi segala bakteri dan mikroorganisme dalam cooling system yang bersifat oksidator yang ramah lingkungan.
CTS 505	Mencegah pembentukan kerak dalam cooling system (evaporative kondensator) dan mencegah korosi. Tendency max. terhadap kerak, Very high cycle water.	B-TAB	Membasmi jamur dan lendir pada FCU/AHU/ evaporator
CH 10 M	Mencegah kerak dan korosi pada Chiller		
CH 10 N	Mencegah korosi dengan cara mendispersikan kristal-kristal hardness sehingga tidak terbentuk kerak dan bereaksi dengan oksida besi dan membentuk lapisan magnetik film sehingga tidak menyebabkan korosi. Digunakan pada system pendingin sirkulasi tertutup (Chiller) & Radiator.		

CHEMICAL CLEANING

ED 3 TA	Dapat digunakan untuk membersihkan kerak-kerak di dalam boiler atau dalam cooling system secara on line cleaning (mesin tidak perlu dimatikan)	SC 100 R	Melarutkan kerak-kerak silika dan kerak pada pipa-pipa boiler serta jenis metal lainnya
RC 555	Membersihkan kontaminasi logam-logam dan zat organik pada resin (ion exchanger) sehingga memungkinkan resin dapat digunakan dalam waktu yang lebih lama dan merecycle (untuk digunakan kembali)	RR 117	Dapat membersihkan deposit ringan dan karat pada permukaan metal baik berupa korosi dan organik/anorganik
D 200 SOLVENT	Melarutkan kerak atau deposit/endapan/garam-garam hardness (kapur) yang menempel pada pipa-pipa boiler, condenser tube (H/E) pada cooling ataupun calorifier, biasanya disebut sbg Chemicals cleaning (Heavy Descaller).	CO 113	Membersihkan dan menjaga mata bor, mesin bubut dan mata gergaji
Z-CLEAN	Membersihkan permukaan benda dari karat ringan dan minyak serta grease	D290	Membersihkan kotoran organik, lemak, minyak dsb
C 01 LCR	Membersihkan lemak, minyak kotoran-kotoran lain yang menempel pada pipa-pipa dan H/E, evaporator dan benda-benda lainnya	OSD 070	Mengolah limbah atau cemaran minyak
FAST CLEAN	Dapat membersihkan kotoran, lemak atau debu pada permukaan logam, coils dan lantai	MC 068	Untuk carbon cleaner dan kotoran-kotoran pada permukaan metal, vinyl, dsb.

New BioCleaner

A Revolutionary Bioreactor and Aeration in One

LAKE AND RIVER



The true cleaning solution to a pure clean environment

Perfect for Creeks, Ponds, Rivers, Lagoons and Bays!

- US Technology, Green Patent A No. 8066873
- Gets rid of odors, sludge and algae in ponds
- Can recycle wastewater for irrigation and reuse.
- Save lots of operating expense payback from opex savings alone
- Can be retrofitted to any STP or WTP system
- Used by Major Malss and other Upscale & Industrial clients



**Easy to assemble
and aporate on site**

Eats sludge fast and uses only 2HP.
FLEXIBLE. Easily moved to another
spot for wider coverage.

**Cuts electric bills by
75% compared to
traditional paddle
wheel aerators.**

**LOW CAPEX
LOW OPEX**

The Biocleaner produce millions of microbes and the aeration mixes them evenly.
Reduces Biological Oxygen Demand (BOD) <10 at microbubbles of 200 microns.
Reduces cost for pond maintenance and mixes up to 5 meters of depth.
Eliminates foul odors and aerates up to 2500 square meters.

Industrial Supplies and Maintenance

- Bulk and Aerosols Maintenance Products
- Industrial Service Chemical Cleaning
- Maintenance Contract Service

Reverse Osmosis System

- Design, Engineering, Fabricator, and System Installation
- Various Filter and Piping System
- Cartridge Filters

FLOCCULANT

PRODUCT OVERVIEW

Cationic polyacrylamide, copolymerized by cationic monomer and acrylamide, is a water-soluble and linear organic polymer with high molecular weight. Its distinguishing feature is highly hydrophilic. It can be dissolved in water in different proportions, insoluble in ethanol, acetone and other organic solvents. The molecular chain is with excellent flocculation due to the reactive groups of a cation charge on it. Different types of products can be selected according to the nature of the sludge. This product forms bridging between the particles by adsorbing suspended solid particles in the sludge or flocculating the particles into larger flocs by charge neutralization, which can quickly clear solution and achieve solid-liquid separation. Thus the dose is small, efficiency is high, the final cake moisture is low, etc.

Anionic polyacrylamide, copolymerized by acrylamide and acrylate monomer, is a ultra-high molecular weight polymer. It has great adsorption-bridge effect. Different model can be used according to the different applications and the requirement of clients for products performance. Anionic polyacrylamide is soluble in water, practically insoluble in organic solvents, characterized as high polymer electrolyte in neutral and alkaline media, sensitive to salt electrolyte to, can form as insoluble gel with high metal ions.

Non-ionic polyacrylamide is a kind of homopolymer formed of acrylamide, with high purity, good solubility, high molecular weight. This series of products are linear polymer with low degree of ions. Its special group endows it with function of flocculation, dispersion, thickening and bonding, film, gel, stable colloidal, etc.

PRODUCT CATALOG

Item	Product Name	Description	Degree Of Ion (WW%)	Molecular Weight (Million)	
7015	Cationic Polyacrylamide		5%	Very Low	6
7110	Cationic Polyacrylamide		10%	Very Low	6
7115	Cationic Polyacrylamide		15%	Low	8
7210	Cationic Polyacrylamide		20%	Low	8
7215	Cationic Polyacrylamide		25%	Medium	8
7310	Cationic Polyacrylamide		30%	Medium	9
7410	Cationic Polyacrylamide		40%	Medium	10
7420	Cationic Polyacrylamide	Off-white 20-40 Mesh	40%	Medium	6
7415	Cationic Polyacrylamide	Solid Content:50% Disinfecting Time:10min Residual:0.5%	45%	High	12
7425	Cationic Polyacrylamide	Monoamer Free<0.1%	45%	High	8
7510	Cationic Polyacrylamide		50%	High	12
7520	Cationic Polyacrylamide		50%	High	7
Degree of Hydrolysis (%)					
8015	Anionic Polyacrylamide		15%	Medium	12
8020	Anionic Polyacrylamide		20%	Medium	16
8028	Anionic Polyacrylamide		28%	Medium	16
8005	Nonionic Polyacrylamide		5%	Low	10

[Samples]

You could have free samples from us for testing.
 You could have customize samples as your request.
 You could have recommend samples as your application.
 Samples will be delivered within 2 days.

APPLICATION



- Waste water Treatment Industry
- Oil Exploration Industry
- Paper Making Industry
- Coal Washing Industry
- Incense Making Industry
- Ore-dressing Industry
- Sugar Making Industry



AIR INTAKE FILTERS



AIR OIL SEPARATORS



COMPRESSED AIR FILTER HOUSING



ELEMENTS



DESSICANT DRYERS



NITROGEN GENERATOR



REFRIGERATED AIR DRYER



HVAC FILTERS

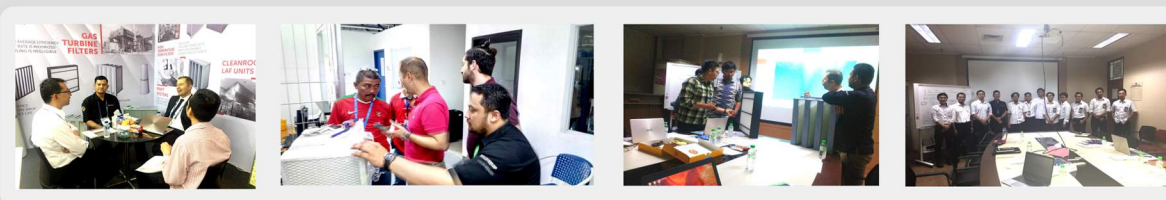
COARSE FILTERS



HEPA FILTERS



FINE and CARBON FILTERS

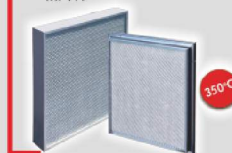


HIGH TEMPERATURE FILTERS

MASHT



MPHT



MVHT



Gas Turbine Air Intake Filters

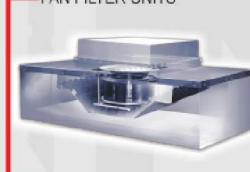


CLEANROOM APPLICATIONS

GEL SEAL FILTERS



FAN FILTER UNITS



MVH HEPA FILTERS

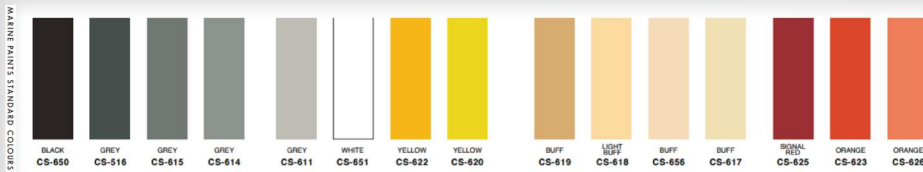


MICROHOOD FILTERS



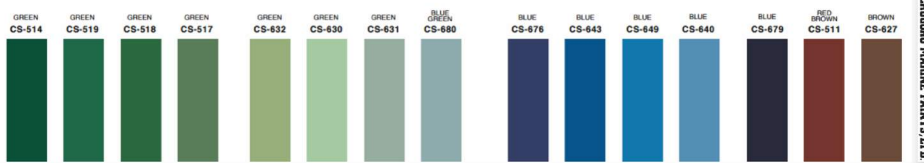
MARINE PAINTS & HEAVY DUTY COATING

- Marine Paints
- Heavy Duty Coatings
- Spaldex (decorative catings)



Marine Paints Standard Colours

CMP CHUGOKU MARINE PAINTS, LTD.



Water Treatment Division

- Controllers
- Dosing Pumps & Instrument



Product Data Sheet

FCI 612 LPF, FCI 814 LPF, FCI 830 LPF, FCI 1230 LPF, (Other Mesh sizes are available upon request).

FCI LPF series of Coconut Shell Activated Carbon are produced from selected Coconut Shell which gives high hardness and adsorption value that is suitable for Liquid Phase Filtration (LPF) applications. It can be used efficiently for removal of contaminants in water and deodorized during the process. The superior adsorptive capacity and surface area makes it particularly attractive for the removal of organics from wastewater, it is suitable for drinking water and food grade applications. The superior hardness in Coconut Shell Activated Carbon also lead to a better physical cleanliness that gives a longer life expectancy.

Product Specification :

<u>Item</u>	<u>Value</u>	<u>Testing Method</u>
Iodine Adsorption (mg/gr)	1,050 Min.	ASTM D 4607
Ball Pan Hardness (%)	98% Min.	ASTM D 3802
Apparent Density (gr/ml)	0.46 Min.	ASTM D 2854
Ash Content (%)	5% Max.	ASTM D 2866
Moisture Content (%)	5% Max.	ASTM D 2867
pH	9-11	ASTM D 3838
Particle Size Distribution (%)	90% Min.	ASTM D 2862

For general information only, not to be construed as purchase specifications.

GOLD SERIES

FCI 612 GRC

FCI 612 GRC Coconut Shell Activated Carbon is produced from selected Coconut Shell which gives high hardness that is process under strictly control activation process for Gold Recovery applications. It can be used efficiently for gold recovery during CIP (Carbon in Pulp) / CIL (Carbon in Leach) / CIC (Carbon in Column) process.

Product Specification :

<u>Item</u>	<u>Value</u>	<u>Testing Method</u>
Butane Adsorption (%)	23.52 Min.	ASTM D5742
CTC Adsorption (%)	60 Min.	Butane Correlation Factor 2.55
Ball Pan Hardness (%)	99% Min.	ASTM D3802
Apparent Density (gr/ml)	0.47 Min.	ASTM D2854
Ash Content (%)	4% Max.	ASTM D2866
Moisture Content (As packed) (%)	5% Max.	ASTM D2867
Abrasion Number (%)	94% Min.	ITM.019
Platelet Content (%)	6% Max.	ITM.009
Fine Content (%)	2% Max.	ITM.009A
D50 Factor (mm)	2.2mm-2.8mm	ITM.010
Particle Size Distribution (%)	90% Min.	ASTM D2862

For general information only, not to be construed as purchase specifications.

*We do not test CTC in our plant to help preserve our precious ozone layer



Certified for ANSI 61



No. 02170000561111



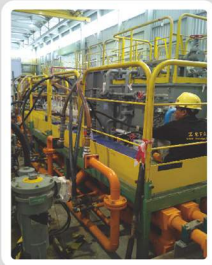
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MADE IN INDONESIA



Specialty Chemicals & Equipments

- Boiler Water Treatment, Cooling & Chiller Water Treatment
- Desalination – Reverse Osmosis Treatment
- WTP/STP/WWTP
- Softener, De-alkalization, Demineralizer and Mix-Bed
- Filters and Various of Filter Media
- Flocculants/Polymers Series
- Fuel Additives
- Chemical Cleanings
- Chemical, Chemical Pump and Controllers



Scope of Service

- Water Treatment Plant –
- Reverse Osmosis –
- Purified Water System –
- Ultrafiltration Membrane –
- Demineralized System –
- Waste Water Treatment –
- Domestic Sewage Treatment –
- Reclaim Water System –
- Condensate Polishing –
- AOPs (Advanced Oxidation Processes) –
- Biocleaner –

Scope of Work

- ★ Consultancy
- ★ Complete Supervision
- ★ System, Training, and Maintenance
- ★ System and Process Design
- ★ Testing and Commissioning
- ★ Spare Part & Material Supply
- ★ Equipment Supply & Instalation
- ★ Cleaning Ciller
- ★ Pickling Online & Offline



Our Customers

- ★ PT. BEKASI POWER
- ★ PT. PETROKIMIA GRESIK
- ★ PT. MIWON INDONESIA
- ★ PT. GOLD COIN INDONESIA
- ★ PT. J RESOURCES BOLAANG M
- ★ PT. MERIDAN SEJATI SURYA P.
- ★ PT. SALIM INVOMAS PRATAMA
- ★ PT. DELTA DJAKARTA, TBK
- ★ PT. ASTRA HONDA MOTOR
- ★ PT. SANKYU INDONESIA INTERNATIONAL
- ★ PT. SAMUDRA MARINE INDONESIA

- ★ PT. PANASONIC MANUFACTURING INDONESIA
- ★ PT MITRA SERASI JAYA
- ★ PT. MULIA BOGA RAYA
- ★ PT. INDOFOOD
- ★ PT. KIMIA FARMA
- ★ PT. INDONESIA POWER
- ★ PT. PUNGKOOK INDONESIA ONE
- ★ PT. ALPEN FOOD INDUSTRIES
- ★ PT. WIJAYA KARYA
- ★ PT. ANGKASA PURA II
- ★ JABABEKA
- AND HUNDRED MORE.....

PT. Zefa Valindo Jaya

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