EFFLUENT TREATMENT BROCHURE

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About Us

Tradeasia International Pte. Ltd. is a privately owned, independent company headquartered in Singapore. We are a global trading organization providing integrated chemical procurement services with certainty and trust, which makes Tradeasia unique.

Tradeasia International was setup with the sole intention of carrying out chemical distribution services especially to commodity industries in many parts of the world. Today, Tradeasia International represents a growing number of businesses that are serving a variety of markets. We source and supply about 500-600 containers monthly to our customers worldwide.

12	50+	500+	400+
Locations	Suppliers	Products	Clients

Activated Carbon

Activated carbon, also known as activated charcoal or activated coal, is a form of carbon with small and low-volume pores which increases the surface area available to facilitate adsorption or chemical reactions. The most common product forms of activated carbon include: extruded, granular, and powder. The different forms of activated carbon allow it to be used in a wide range of applications according to their preferred properties.

HS Code	: 3802.10.00
CAS No.	: 7440-44-0
Grade	: Extruded, Granular, Powder
Origin	: China, India
Packaging	: • 400 @ 25 kg Bags, 10 MT / 20'FCL • 42 @ 500 kg jumbo bag, 21 MT/20'FCL

Specifications:

Property	Unit	Value
Methylene Blue	mg/g	280
$KmnO_4$	%	60 (min)
Iron	ppm	200 (max)
Acid Solubles	%	1.5 (max)
Water Solubles	%	1 (max)
pH		6.0 - 7.5
Moisture	%	5 (max)
Chloride	ppm	1000 (max)

Applications :

Gas Purification

It is often employed to remove pollutants in air conditioner and exhaust system. Activated carbon can also be used to remove odorous substances in kitchen exhaust food and refrigerator filters.

Waste-water Treatment

Currently, the use of activated carbon has been widely established in the water treatment industry, ground water rehabilitation and the treatment of service water.

Environmental Applications

Carbon adsorption has numerous applications in removing pollutants from air or water streams both in the field and in industrial processes such as: spill cleanup, groundwater remediation, drinking water filtration, volatile organic compounds capture from painting, dry cleaning, gasoline dispensing operations, and other processes, etc

Agricultural Industry

Activated carbon (charcoal) is an allowed substance used by organic farmers in both livestock production and wine making.

Pharmaceutical Industry

Activated carbon is used in the pharmaceutical industry to manufacture medications to treat overdoses and poisonings through oral ingestions.

Polyaluminium Chloride

Polyaluminium Chloride (PAC) is an inorganic polymer coagulant. It is a yellow solid powder that is widely used in water treatments. PAC is better than other aluminum salts such as aluminium chloride, aluminium sulphate, and other various forms of Polyaluminium chlorisulfate and Polyaluminium chloride that they have lower charge than PAC. These are 2 methods for polyalumunium chloride, the Gypsum process and Pressure process.

HS Code	: 2827.32.00
CAS No.	: 1327-41-9
Origin	: China
Packaging	: 800 @ 25kg plastic woven bags, 20 MT/20'FCL

Specifications:

Property	Unit	Value
Appearance		Pale Yellow Powder
Purity	%	28 - 31
Basicity		30 - 95
pH		3.5 - 5.0
Water Insoluble Matter	%	≤1.5
Iron	%	≤5.0
Lead	%	≤0.006
Arsenic	%	≤0.0015

Applications :

Waste-water Treatment

Polyaluminium chloride is used in the treatment of drinking potable water and wastewater treatment. PAC is well known to be used as flocculants for waste water treatment.

Artificial Coal Industry

Polyalumunium chloride is used for separating coal and water with excellent effect.

Pharmaceutical Industry

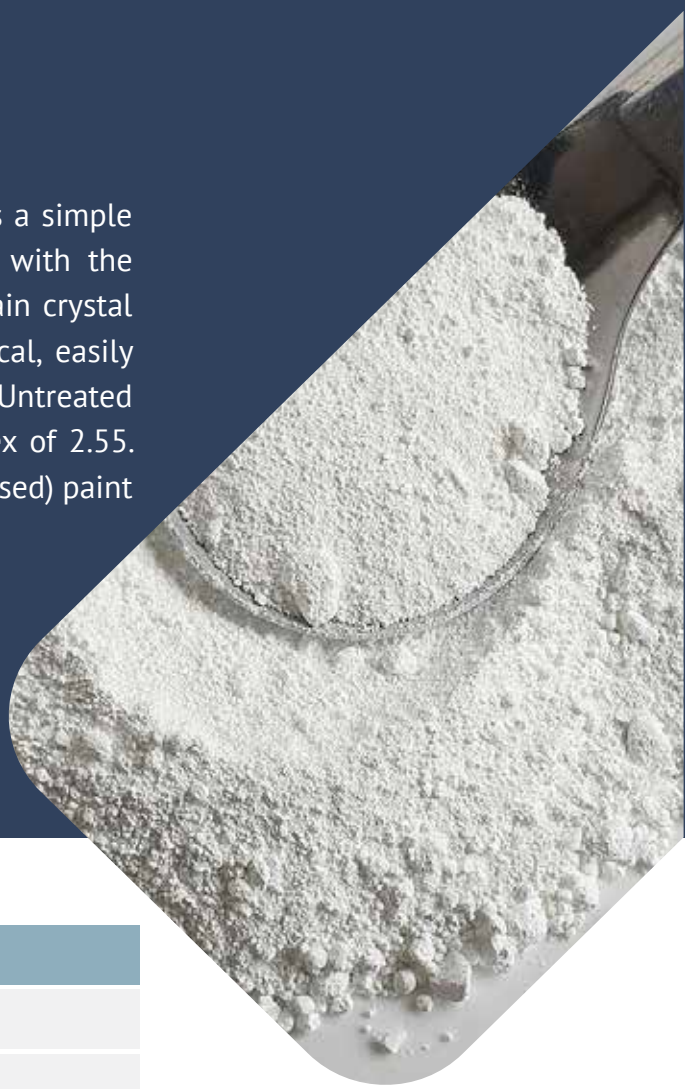
Polyalumunium chloride is widely a raw material for deodorant manufacturing.

Oil Refining

Polyalumunium chloride is used for oil and water separation.

Titanium Dioxide

Titanium dioxide, also known as Titanium(IV) or Titania, is a simple inorganic compound produced as a pure white powder with the chemical formula TiO_2. Generally, it is available in two main crystal forms, which are rutile and anatase. Anatase is economical, easily dispersed in water-based systems, and a perfect opacifyer. Untreated titanium dioxide (anatase) has TiO_2 with a refractive index of 2.55. However, it is not commonly used in exterior (weather exposed) paint applications except for highway paints.



HS Code	: 3206.11.10
CAS No.	: 13463-67-7
Origin	: China
Packaging	: 80 @ 25 kg PP bag, 22 MT/20'FCL

Specifications:

Property	Value
Appearance	White powder
Odor	Odorless
pH	5 - 8.5 (10% slurry)
Melting Point	3326 - 3362 °F (1830 - 1850 °C)
Boiling Point	4532 - 5432 °F (2500 - 3000 °C)
Specific Gravity	4.1 approx. (@20 °C)
Bulk Density	600 kg/m^3 approx. (@20 °C)
Solubility in Water	Insoluble

Applications :

Paint & Coating Industry

Titanium dioxide is one of the most widely used white pigments because of its brightness and very high refractive index (n=2.7), in which only a few other materials surpass it.

Paper Industry

Titanium dioxide is an effective opacifier in powder form in paper industry. It is employed as a pigment to provide whiteness and opacity of paper products.

Waste-water Treatment

Heterogeneous photocatalysis using the semiconductor titanium dioxide (TiO_2) has proven to be a promising treatment technology for water purification.

Plastic Industry

This pigment is used extensively in plastics and other applications for its UV resistant properties where it acts as a UV absorber, efficiently transforming destructive UV light energy into heat.

Industrial Salt

Industrial salt, also known as sodium chloride, has a chemical formula of NaCl. It is an ionic salt and exists as a white crystalline solid. Sodium chloride is widely distributed in nature and is found mostly in oceans (seawater has an average concentration of 2.68 wt% of NaCl). The most important applications of sodium chloride in the chemical industry are in making a number of important industrial chemicals such as hydrochloric acid, sodium hydroxide, sodium carbonate, and metallic sodium.

HS Code	: 2501.00.10
CAS No.	: 7647-14-5
Origin	: China
Packaging	: 1000 @ 25 kg outer PP plastic woven bag lined with PE plastic film bag, 25 MT / 20'FCL

Specifications:

Property	Unit	Value
Appearance		White crystalline powder
NaCl	%	≥99
Moisture	%	≤0.10
Water Insolubles	%	≤0.05
Ca^{2+} & Mg^{2+}	%	≤0.25
SO_4^{2-}	%	≤0.30
Anti-caking ([Fe(CN)6]4-)	ppm	≤10

Applications :

Waste-water Treatment

In water treatment, salt is used as water softener. Different forms of salt for water softening are available on the market : tablets (flat or cylindrical) and granules.

Detergent Industry

Sodium chloride's main function in the detergent industry is as an inert filler. It is the most commercially effective viscosity increasing agent to turn powder detergent to fluid.

Textile Industry

Sodium chloride is used for rinsing in textile processing to separate organic contaminants and to precipitate salt out of dyestuffs.

Calcium Hypochlorite

Calcium hypochlorite exists as a white granular powder and has the formula of $Ca(OCl)_2$. It has a strong scent of chlorine but is more stable than chlorine. It exists as both anhydrous and hydrated forms, giving a basic aqueous solution. Calcium hypochlorite is manufactured using calcium and sodium process.

HS Code	: 2828.10.00
CAS No.	: 7778-54-3
Origin	: China
Packaging	: • 400 @45kg drum, 18 MT/20'FCL • 400 @50kg drum, 20 MT/20'FCL

Specifications:

Property	Unit	Value
Appearance		White or light-grey granular or powder
Available Chlorine	%	65
Moisture	%	3
Granularity (14-50 mesh)	%	87
Density	g/ml	1.0 - 1.1
Insolubility	%	5.0 (max)
$CaCl_2$	%	9.0 (max)

Applications :

Waste-water Treatment

Calcium hypochlorite is used to purify water, for treating wells, controlling algae especially sudden growth in reservoirs, filters and other equipment, treating sewage and controlling odor.

Textile Industry

Calcium hypochlorite is an active component in bleaching powder. It is used to bleach cellulosic fabrics such as cotton and linen.

Other Applications

It is used for sanitizing food and beverage containers and production equipment in dairies, restaurants, hospitals and farms. It is used to control algae and slime in commercial and industrial cooling water systems.

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