1 Aluminium Hydroxide

WaterLilly ENTERPRISE

Properties :

Chemical Formula	$Al(OH)_3$
CAS No.	21645-51-2
Molecular weight of $Al(OH)_3$	78.00 g/mol
Appearance	White amorphous powder
Density of Aluminium Hydroxide	2.42 g/dm^3
Flashpoint of Aluminium Hydroxide	Non-Flammable
Melting Point of Aluminium Hydroxide	300 °C
Boiling Point of Aluminium Hydroxide	2980 °C
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Solubility	Practically insoluble in water. It dissolves in dilute mineral acids & in solution of alkali hydroxides.
Identification	It gives reaction of Aluminium
Alkaline Impurities	Any pink color disappears on the addition of 0.3 ml of 0.1 M Hydrochloric acid.
Neutralizing Capacity	After 10 Min. – pH NLT 1.8 After 15 Min. – pH NLT 2.3 After 20 Min. – pH NLT 3.0 NMT 35 ml of 0.1 M NaOH is required
Chloride	Not more than 1.0 %
Sulfate	Not more than 1.0 %
Arsenic	Not more than 4 ppm
Heavy metals	Not more than 60 ppm
Assay	Between 47.0 % to 60.0 % of Al_2O_3
Microbial contamination	
TAMC	Not more than 1000 CFU/gm
TYMC	Not more than 100 CFU/gm

Applications : Pharma, Cosmetics, Water Treatment, Packing : 25 Kgs. HDPE bags with inside LDPE liner

2 Ammonium Chloride

WaterLilly ENTERPRISE

Properties :

Chemical Formula	NH_4Cl
CAS No.	12125-02-9
Molecular weight of NH_4Cl	53.49 g/mol
Appearance	White Crystalline fine powder
Density of Ammonium Chloride	1.53 g/dm^3
Flashpoint of Ammonium Chloride	Non-Flammable
Melting Point of Ammonium Chloride	338 °C
Boiling Point of Ammonium Chloride	520 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	Ammonium : +Ve, Chloride : +Ve
pH (5% SOLUTION)	4.6 -6.0
Residue on Ignition	Max. 0.1%
Heavy metals	Max. 5 ppm
Assay on Dry Basis	99.0 – 100.5 %
Moisture	5% max.
Iron	200 ppm max.
Sulphated Ash	0.3% max.
Arsenic	5 ppm max

Applications : Pharma, Cosmetics, Fertilizer, Textile Printing.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

3 Calcium Acetate

Properties :

Chemical Formula	$Ca(C_2H_3O_2)_2$
CAS No.	62-54-4
Molecular weight of $Ca(C_2H_3O_2)_2$	158.16 g/mol
Appearance	White Fine powder
Density of Calcium Acetate	1.50 g/cm^3
Flashpoint of Calcium Acetate	Non-Flammable
Melting Point of Calcium Acetate	160 °C
Boiling Point of Calcium Acetate	117.1°C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	Acetate:+Ve,Calcium:+Ve
pH (5% SOLUTION)	6.5 – 9.0
Heavy Metals (as Pb)	max. 0.0025%
ASSAY ON DRY BASIS	99.0 – 100.5 %
Water	Max. 7.0%
Chloride (Cl)	Max. 0.05%
Sulphate (SO_4)	Max. 0.06%
Arsenic (As)	Max. 3 ppm

Applications : Pharma, Food colors, Baking Foods, Cosmetics

Packing : 25 Kgs. HDPE bags with inside LDPE liner

4 Calcium Carbonate

WaterLilly ENTERPRISE

Properties :

Chemical Formula	$CaCO_3$
CAS No.	471-34-1
Molecular weight of $CaCO_3$	100.00 g/mol
Appearance	White Fine powder
Density of Calcium Carbonate	2.71 g/cm^3
Flashpoint of Calcium Carbonate	Non-Flammable
Melting Point of Calcium Carbonate	825 °C
Boiling Point of Calcium Carbonate	2850 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
$CaCO_3$Content	more than 98%
MgO Content	Less than 0.68%
Fe_2O_3 Content	Less than 0.04%
Al_2O_3 Content	Less than 0.04%
SiO_2 Content	Less than 0.75%
Na_2O Content	Less than 0.16%
Content loss on Ignition	Less than 43.08%
pH Value	9.5

Applications : Pharma, Adhesives, PVC Pipe, Ink, Footwear.

Packing: 25 Kgs. HDPE bags with inside LDPE liner

5 Calcium Sulphate

Properties :

Chemical Formula	$CaSO_4$
CAS No.	7778-18-9
Molecular weight of $CaSO_4$	136.14 g/mol
Appearance	Slightly white & brownish color
Density of Calcium Sulphate	2.32 g/dm^3
Flashpoint of Calcium Sulphate	Non-Flammable
Melting Point of Calcium Sulphate	1460 °C
Boiling Point of Calcium Sulphate	163 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	Calcium +ve and Sulphate +ve
Lead	max. 0.0002%
Fluoride	max. 0.003%
Selenium	max. 0.003%
Loss on drying	max. 1. 5 % - anhydrous
Assay	min. 99.0% of CaSo4

Applications : Pharma, Toothpaste, Plaster of Paris, Cement.

Packing : 25/50 Kgs. HDPE bags with inside LDPE liner

6 Copper Sulphate

Properties :

Chemical Formula	$CuSO_4$
CAS No.	7758-98-7
Molecular weight of $CuSO_4$	159.60 g/mol
Appearance	Blue
Density of Copper Sulphate	3.60 g/cm^3
Flashpoint of Copper Sulphate	Non-Flammable
Melting Point of Copper Sulphate	110 °C
Boiling Point of Copper Sulphate	340 °C
Water Solubility	Soluble

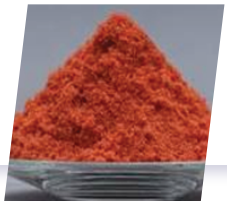
Specifications :

TESTS	SPECIFICATIONS
Odor	Odorless
Moisture	NMT 28%
Bulk Density	1.33 – 1.41 g/ml
Sieve Analysis	99% should pass through 500 micron
Purity $CuSO_4$	NMT 95%
Copper	NMT 24%
Free Sulphuric Acid	NMT 0.26%
Arsenic	NMT 0.0007%
Lead	NMT 0.0009%
Mercury	Nil

Applications: Paints, Food, Fertilizer

Packing : 25 Kgs. HDPE bags with inside LDPE liner

7 Cobalt Sulphate



Properties :

Chemical Formula	$CoSO_4$
CAS No.	10026-24-1
Molecular weight of $CoSO_4$	154.996 g/mol
Appearance	Reddish Crystalline
Density of Cobalt Sulphate	3.71 g/cm^3
Flashpoint of Cobalt Sulphate	Non-Flammable
Melting Point of Cobalt Sulphate	735 °C
Boiling Point of Cobalt Sulphate	330 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Cobalt	20.0 % Min.
Cl	0.001 % Max.
Cu	0.002 % Max.
Fe	0.001 % Max.
Pb	0.005 % Max.
Ni	0.1 % Max.
No_3	0.005 % Max.
Zn	0.02 % Max.
Assay	98.0 % Min.

Applications : Animal Feed, Batteries, Paints, Super Alloys.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

8 Ferrous Sulphate

Properties :

Chemical Formula	$FeSO_4$
CAS No.	7782-63-0
Molecular weight of $FeSO_4$	151.91 g/mol
Appearance	Light Green crystals
Density of Ferrous Sulphate	3.65 g/cm^3
Flashpoint of Ferrous Sulphate	Non-Flammable
Melting Point of Ferrous Sulphate	680 °C
Boiling Point of Ferrous Sulphate	>300 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	Gives the reaction of Sulphates & Iron.
pH	3.0 to 4.0
Chlorides	NMT 300 ppm
Chromium	NMT 200 ppm
Copper	NMT 50 ppm
Ferric Ions	NMT 0.5%
Manganese	NMT 0.1%
Nickel	NMT 200 ppm
Zinc	NMT 200 ppm
Assay	86% to 90%.

Applications : Pharma, Agriculture, Non Veg Food.
Packing: 25 Kgs. HDPE bags with inside LDPE liner

9 Magnesium Carbonate

Properties :

Chemical Formula	$MgCO_3$
CAS No.	546-93-0
Molecular weight of $MgCO_3$	84.31 g/mol
Appearance	White Free flow fine powder
Density of Magnesium Carbonate	2.96 g/cm^3
Flashpoint of Magnesium Carbonate	Non-Flammable
Melting Point of Magnesium Carbonate	160°C
Boiling Point of Magnesium Carbonate	117.1°C
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Identification	It gives the reaction of carbonates
Heavy Metals Impurities	Nil
Sulphate	0.08% max
Iron	20 ppm max
Calcium	0.2% max
Moisture	0.5% max
Loss on Ignition	55% max
Chloride (Cl)	700 ppm Max

Applications : Pharma, Paper, Soft Drinks, Crockeries

Packing : 25 Kgs. HDPE bags with inside LDPE liner

10 Magnesium Oxide

Properties :

Chemical Formula	MgO
CAS No.	1309-48-4
Molecular weight of MgO	40.30 g/mol
Appearance	White Fine Powder
Density of Magnesium Oxide	3.60 g/cm^3
Flashpoint of Magnesium Oxide	Non-Flammable
Melting Point of Magnesium Oxide	2800°C
Boiling Point of Magnesium Oxide	3600°C
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Identification	A Solution in diluted hydrochloric acid meets the requirements.
Free Alkali and Soluble Salts	Not more than 2.0 ml Not more than 10 mg (2.0%)
Acid-Insoluble Substances	Not more than 2 mg (0.1%)
Limit of Calcium	Not more than 101%
Heavy Metals	Not more than 20 ppm
Iron	Not more than 0.05%
Loss on Ignition	Not more than 10.00%
Assay	96 – 100

Applications : Pharma, Rubber, Cement, Plastics

Packing : 25/50 Kgs. HDPE bags with inside LDPE liner

11 Magnesium Hydroxide

Properties :

Chemical Formula	$Mg(OH)_2$
CAS No.	1309-42-8
Molecular weight of $Mg(OH)_2$	58.3197 g/mol
Appearance	White solid
Density of Magnesium Hydroxide	2.3446 g/cm^3
Flashpoint of Magnesium Hydroxide	Non-Flammable
Melting Point of Magnesium Hydroxide	350 °C
Boiling Point of Magnesium Hydroxide	decomposes
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Identification	It gives reaction of Magnesium Salts
Arsenic	NMT 4 ppm
Heavy Metals	NMT 30 ppm
Iron	NMT 0.07%
Chloride	NMT 0.1%
Sulfate	NMT 0.5%
Calcium	NMT 1.5%
Soluble Substances	NMT 20 mg
Substance insoluble in acetic acid	NMT 5 mg
Loss on Ignition	Between 29.0% to 32.5%
Assay	Between 95.0% to 100.5% of $Mg(OH)_2$

Applications : Pharma, Food

Packing: 25 Kgs. HDPE bags with inside LDPE liner

12 Magnesium Sulphate

WaterLilly ENTERPRISE

Properties :

Chemical Formula	$MgSO_4.7H_2O$
CAS No.	10034-99-8
Molecular weight of $MgSO_4.7H_2O$	246.47 g/mol
Appearance	White crystalline solid
Density of Magnesium Sulphate	1.68 g/cm^3
Flashpoint of Magnesium Sulphate	Non-Flammable
Melting Point of Magnesium Sulphate	150°C
Boiling Point of Magnesium Sulphate	330°C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	a. It gives the reactions of sulphates. b. It gives the reaction of magnesium.
ASSAY ON DRY BASIS	Min. 98.00%
pH	5.0 – 9.2
Heavy Metals (as Pb)	Max. 10 ppm
Chloride (Cl)	Max. 5 ppm
Sulphate (SO_4)	Max.0.06%
Iron (Fe)	Max. 5 ppm
Calcium	0.02%

Applications : Pharma, Cosmetics, Water Treatment, Food.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

13 Manganese Sulphate

Properties :

Chemical Formula	$MnSO_4$
CAS No.	10034-96-5
Molecular weight of $MnSO_4$	151.001 g/mol
Appearance	Light Pinkish
Density of Manganese Sulphate	3.25 g/cm^3
Flashpoint of Manganese Sulphate	Non-Flammable
Melting Point of Manganese Sulphate	710 °C
Boiling Point of Manganese Sulphate	850 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Assay / Main Content	Min 99%
Manganese	Min 32%
Iron (Fe)	Max 70 PPM
Moisture	Max 0.5%
Lead	Max 15 ppm
Arsenic	Max 2 ppm
Mercury	0.5 ppm Max.

Applications : Fertilizer, Veterinary Medicine.

Packing : 25/50 Kgs. HDPE bags with inside LDPE liner

14 Manganese Carbonate

WaterLilly ENTERPRISE

Properties :

Chemical Formula	$MnCO_3$
CAS No.	598-62-9
Molecular weight of $MnCO_3$	114.95 g/mol
Appearance	Cream
Density of Manganese Carbonate	3.12 g/cm^3
Flashpoint of Manganese Carbonate	Non-Flammable
Melting Point of Manganese Carbonate	350 °C
Boiling Point of Manganese Carbonate	707 °C
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Acid Insoluble Matter	0.5% Max.
Manganese content (Mn)	43.5% (± 1%)
Iron (Fe)	0.005% Max.
Sulphate (SO_4)	0.5% Max.
Chloride (Cl)	0.1% Max.
Purity ($MnCO_3$)	94.0%

Applications : Pharma, Fertilizer, Ceramics.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

15 Potassium Chloride

Properties :

Chemical Formula	KCl
CAS No.	7447-40-7
Molecular weight of KCl	74.55 g/mol
Appearance	White Crystalline solid
Density of Potassium Chloride	1.98 g/cm^3
Flashpoint of Potassium Chloride	Non-Flammable
Melting Point of Potassium Chloride	770 °C
Boiling Point of Potassium Chloride	1420 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Calcium & Magnesium	Passes the Test
Heavy Metals	10 ppm max
Sulphate	300 ppm max
Iron	100 ppm
Arsenic	10 ppm max
Moisture % by Wt. Max	1%
KCl Dry Basis Assay (DBA)	98% min KCl
Chloride (Cl)	Max. 700 ppm
pH Value	7

Applications : Pharma, Textile Printing, Paints, Food, Soap.

Packing : 25/50 Kgs. HDPE bags with inside LDPE liner

16 Potassium Sulphate

Properties :

Chemical Formula	K_2SO_4
CAS No.	7778-80-5
Molecular weight of K_2SO_4	174.259 g/mol
Appearance	White Solid
Density of Potassium Sulphate	2.66 g/cm^3
Flashpoint of Potassium Sulphate	Non-Flammable
Melting Point of Potassium Sulphate	1,069°C
Boiling Point of Potassium Sulphate	1,689 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Heavy Metals	20 ppm max
Loss on Drying	1.0 max.
Assay	98%
K_2O	50%
Sulphur	18%
Moisture	0.1%
Chloride	1.5%
pH of 5% sol.	5-7

Applications : Pharma, Glass, Fertilizer, Dyes.

Packing : 50 Kgs. HDPE bags with inside LDPE liner

17 Sodium Acetate

Properties :

Chemical Formula	$C_2H_3NaO_2$
CAS No.	127-09-3
Molecular weight of $C_2H_3NaO_2$	82.03 g/mol
Appearance	White Coarse Powder
Density of Sodium Acetate	1.53 g/cm^3
Flashpoint of Sodium Acetate	Non-Flammable
Melting Point of Sodium Acetate	324 °C
Boiling Point of Sodium Acetate	881.4°C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identifications	Positive
Assay $NaC_2H_3O_2$	98.5% Min
pH of Solution	6.5 to 8.5 Max
Alkalinity as NaOH	0.5 % Max
Iron as Fe	0.005 % Max
Heavy Metal as Pb	0.005 % Max
Acidity as $HC_2H_3O_2$	1.0 % Max
Loss on Drying	1.0 % Max.
Sulphate as So_4	0.005 % Max.

Applications : Pharma, Food Additive – Preservative, Soap, Cosmetics.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

18 Zinc Acetate

Properties :

Chemical Formula	$Zn(CH_3CO_2)_2$
CAS No.	557-34-6
Molecular weight of $Zn(CH_3CO_2)_2$	219.50 g/mol
Appearance	White Solid (all forms)
Density of Zinc Acetate	1.735 g/cm^3
Flashpoint of Zinc Acetate	Non-Flammable
Melting Point of Zinc Acetate	257 °C
Boiling Point of Zinc Acetate	Decomposes
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Identification	Gives reaction of Acetate. Gives reaction of Zinc.
pH	5.8 to 7.0
Reducing Substances	Boiled with mixture of sulphuric acid & potassium permanganate pink colour of solution remains.
Chlorides	NMT 50 ppm.
Sulphates	NMT 100 ppm.
Aluminium	NMT 5 ppm
Arsenic	NMT 2 ppm
Cadmium	NMT 10 ppm
Copper	NMT 50 ppm
Iron	NMT 50 ppm
Lead	NMT 10 ppm
Assay	99% to 101%

Applications: Pharma, Animal Feed, Agriculture, Food.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

19 Zinc Oxide

Properties :

Chemical Formula	ZnO
CAS No.	1314-13-2
Molecular weight of ZnO	81.406 g/mol
Appearance	White solid
Density of Zinc Oxide	5.6 g/cm^3
Flashpoint of Zinc Oxide	Non-Flammable
Melting Point of Zinc Oxide	1974 °C
Boiling Point of Zinc Oxide	2360 °C
Water Solubility	Insoluble

Specifications :

TESTS	SPECIFICATIONS
Assay	99.9%
Acid Insoluble	0.1% max.
Iron	0.0005% max.
Lead	0.002% max.
Cadmium	10 ppm
Copper	2 ppm
Manganese	2 ppm
Arsenic	6 ppm
Sulphur	0.05%
Heat Loss at 110° C	0.2%
Acidity as SO_3%	Nil
Alkalinity	0.05%
325 mesh US Sieve	0.1%
Specific Grauity	5.50 min. 5.70 max.
Solubility	Insoluble in acid.

Applications: Pharma, Rubber, Glass, Lubricants, Cement.

Packing : 25 Kgs. HDPE bags with inside LDPE liner

20 Zinc Sulphate

Properties :

Chemical Formula	$ZnSO_4$
CAS No.	7446-19-7
Molecular weight of $ZnSO_4$	161.44 g/mol
Appearance	White Powder
Density of Zinc Sulphate	3.54 g/cm^3
Flashpoint of Zinc Sulphate	Non-Flammable
Melting Point of Zinc Sulphate	680 °C
Boiling Point of Zinc Sulphate	740 °C
Water Solubility	Soluble

Specifications :

TESTS	SPECIFICATIONS
Assay	99.0 - 100.5%
Free Acid	pH > 4.4
Loss on Drying	33.0 - 36.5%
Lead (Pb)	Less than 10 ppm
Cadmium (Cd)	Less than 5 ppm
Arsenic (As)	Less than 3 ppm
Mercury (Hg)	Less than 2 ppm

Applications : Pharma, Animal Feed, Agriculture, Cosmetics

Packing : 25 Kgs. HDPE bags with inside LDPE liner