



# RYAN INTERNATIONAL

Importer & Trader for Chemicals & Minerals



Distributor for GHCL Limited

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Products : Soda Ash | Sodium Bicarbonate | STPP | SLS | Kaolin Clay | Bentonite | Propylene Glycol | Melamine | Phthalic Anhydride  
Maleic Anhydride | PVC Resin | Methylene Chloride | Boric Acid | Borax Deca Hydrate | Borax Pentahydrate | Titanium Dioxide | Bituminous | Industrial Salt

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## HEAD OFFICE :

52/D, Samrat Building, Office No. 6, Grd. Flr., Opp. Vishal Hall,  
Sir M. V. Road, Andheri-East, Mumbai-400 069. INDIA.

☎ +91-99672 90992 / 98339 89975

☎ +91-9870017722

✉ mmashru@hotmail.com

## BRANCH OFFICE :

Ratilal Tribhovandas Building,  
Maliwada Road, Junagadh - 362 001. (Gujarat). INDIA.

☎ +91 285 2650026 / 2651274

## WARE HOUSE :

1. Plot No. 22, Vishaldeep Compound, 8-A National Highway,  
Behind Hotel Ravi Residency, Village : Lalpar, Tal. Morbi,  
Dist. : Rajkot - 363 641. (Gujarat) ☎ +91 88499 96598
2. Madhavi Compound, Gala No. 2, Godown No. 1, Paiki Road,  
Behind New Popular Petrol Pump, Wavate Pada, Village : Rahanal,  
Tehsil : Bhiwandi, Dist. : Thane - 421302. (Maharashtra) ☎ +91 90968 32754
3. Plot No. 12-13, Opp. Sakkarbaug Zoo,  
Rajkot - Junagadh Highway, Junagadh - 362 001. (Gujarat)  
☎ +91 9898 310 445



# RYAN INTERNATIONAL

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## LIGHT SODA ASH

# CERTIFICATE OF ANALYSIS

CHARACTERISTICS	SPECIFICATION			U.O.M.	CHARACTERISTICS
	GUARANTEED	DETERGENT GRADE	TYPICAL		
Description	White, crystalline product, free form dirt and other foreign matter	White, uniform, product, free from dirt & other foreign, matter	White, uniform, product, free from dirt & other foreign, matter		Work Instruction No. LAB/FIN/W01 which is generally in conformance with IS-251.
Total alkalinity as Na <sub>2</sub> CO <sub>3</sub> (Min)	99.0	98.5	99.2	% by mass	
Chloride as NaCl (Max)	0.80 (0.3 +/- 0.1 in case of low chloride)	0.80	0.36	% by mass	
Fe <sub>2</sub> O <sub>3</sub> (Max.)	60	60	15	ppm	
Bulk Density	500-750	500-750	680	gram / litre	
Sulphate as Na <sub>2</sub> SO <sub>4</sub> (Max)	0.02	0.02	0.008	% by mass	
Volatile Matter (Max)	0.7	0.7	0.5	% by mass	
Matter Insoluble in water (Max)	0.02	0.02	0.004	% by mass	
Particle Size Distribution :					
a) + 0.500 mm	-	2.5	2.2	% by mass	
b) + 0.250 mm	-	6.0	5.7	% by mass	

Packing Size : 50 KGS.





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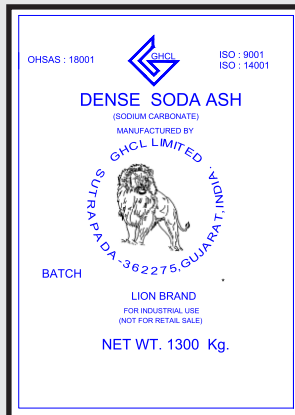


## DENSE SODA ASH (GAMMA GRADE)

# CERTIFICATE OF ANALYSIS

CHARACTERISTICS	SPECIFICATION GUARANTEED	UOM	CONFORMANCE STANDARD
Description	White, crystalline product, free from dirt and other foreign matter	-	Work Instruction No. LAB/FIN/W01 Which is generally in conformance with IS - 251.
Total alkalinity as Na <sub>2</sub> CO <sub>3</sub> (Min)	98.5	% by mass	
Chloride as NaCl (Max)	0.5	% by mass	
Fe <sub>2</sub> O <sub>3</sub> (Max.)	30	ppm	
Bulk Density	951-1250	Gram/litre	
Sulphate as Na <sub>2</sub> SO <sub>4</sub> (Max)	0.08	% by mass	
Volatile Matter (Max)	2.0	% by mass	
Matter Insoluble in water (Max)	0.15	% by mass	
Particle Size Distribution :			
a) +1.70 mm (Max)	1.00	% by mass	
b) - 0.075 mm (Max)	15.00	% by mass	

Packing Size : 50 KGS.





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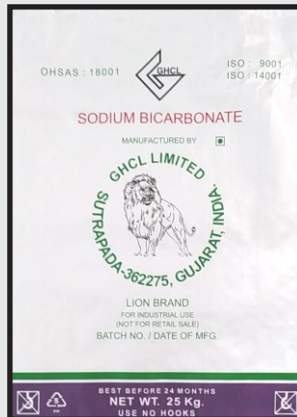
Distributor for GHCL Limited



## SODIUM BICARBONATE

# TECHNICAL GRADE CERTIFICATE OF ANALYSIS

CHARACTERISTICS	SPECIFICATION GUARANTEED	UOM	CONFORMANCE STANDARD
Description	White, Minutely Crystalline Powder, Free from dirt and other foreign matter	-	Work Instruction No. LAB/FIN/W01 Which is generally in conformance with IS -2124.
Total alkalinity (as NaHCO <sub>3</sub> ) Min.	99.00	% by mass	
pH (1% solution) Max.	8.8	-	
Chloride (as Cl) Max.	0.06	% by mass	
Insoluble Matter Max.	0.1	% by mass	
Sulphate (as SO <sub>4</sub> ) Max.	0.07	% by mass	
Iron (as Fe) Max.	0.0040	% by mass	
Heavy Metal (as Pb) Max.	5	ppm	
Arsenic (as As) Max.	1.5	ppm	
Copper (as Cu) Max.	30	ppm	
Packing Size : 50 KGS.			





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## SODIUM BICARBONATE

# FOOD GRADE CERTIFICATE OF ANALYSIS

CHARACTERISTICS	SPECIFICATION GUARANTEED	UOM	CONFORMANCE STANDARD
Description	White, Minutely Crystalline Powder, Free from dirt and other foreign matter	-	Work Instruction No. LAB/FIN/W01 Which is generally in conformance with IS -2124.
Total alkalinity (as NaHCO <sub>3</sub> ) Min.	99.6	% by mass	
pH (1% solution) Max.	8.4	-	
Chloride (as Cl) Max.	0.04	% by mass	
Insoluble Matter Max.	0.05	% by mass	
Sulphate (as SO <sub>4</sub> ) Max.	0.05	% by mass	
Iron (as Fe) Max.	0.0020	% by mass	
Heavy Metal (as Pb) Max.	5	ppm	
Arsenic (as As) Max.	1.5	ppm	
Copper (as Cu) Max.	30	ppm	

Packing Size : 50 KGS.





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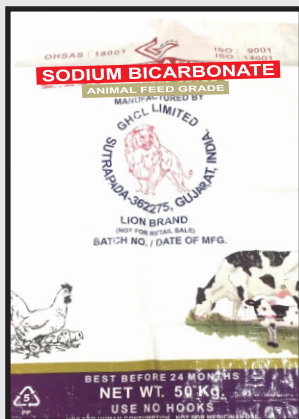


## SODIUM BICARBONATE

# ANIMAL FEED GRADE CERTIFICATE OF ANALYSIS

CHARACTERISTICS	SPECIFICATION GUARANTEED	UOM	CONFORMANCE STANDARD
Description	White, Minutely Crystalline Powder, Free from dirt and other foreign matter	-	Work Instruction No. LAB/FIN/W01 Which is generally in conformance with IS -2124.
Total alkalinity (as NaHCO <sub>3</sub> ) Min.	99.2	% by mass	
pH (1% solution) Max.	8.8	-	
Chloride (as Cl) Max.	0.06	% by mass	
Insoluble Matter Max.	0.01	% by mass	
Sulphate (as SO <sub>4</sub> ) Max.	0.07	% by mass	
Iron (as Fe) Max.	0.0040	% by mass	
Heavy Metal (as Pb) Max.	5	ppm	
Arsenic (as As) Max.	1.5	ppm	
Copper (as Cu) Max.	30	ppm	

Packing Size : 50 KGS.





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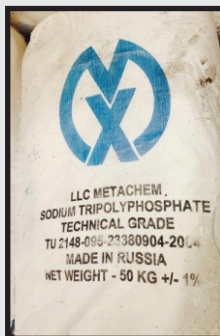


## SODIUM TRIPOLYPHOSPHATE (STPP)

### METACHEM RUSSIA

### CERTIFICATE OF ANALYSIS

Sr.No.	PARAMETERS	GUARANTEED
1.	P2O5 content %	56+/-0.5
2.	ROH 1 minute minimum	81
	maximum	93
3.	ROH 5 minute minimum	84
	maximum	95
4.	Bulk Density, g/ml, maximum	1.2
5.	Whiteness level, %, minimum	82
6.	Sodium Tripolyphosphate (Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> ) (Expressed as a % of total phosphate content), %, minimum	92
7.	Phase (Form) 1, %, minimum	25
8.	%, Maximum	55
	Paticle Size Distribution	
	On 425 micron (Tyler 35 mesh or equivalent), %, maximum	5
	Thru 150 micron (Tyler 100 mesh or equivalent), %, minimum	75
9.	Iron, mg/kg, maximum	300
10.	pH (1.0% in distilled water @ 25oC), minimum	9
	maximum	10
11.	Water insoluble, %, Maximum	0.10
12.	Appearance	White free flowing powder, free of foreign materials Free from objectionable odours
13.	Odour	
Packing Size : 50 KGS.		





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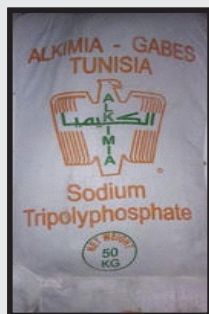


## SODIUM TRIPOLYPHOSPHATE (STPP)

### ALKIMIA - GABES TUNISIA CERTIFICATE OF ANALYSIS

PARAMETERS	UNITS	ANALYSIS	SP-0308-D REV 1	NORMS
Appearance	/	OK	Free flowing white powder Free from visible contaminants	/
Odour	/	OK	The material should have no noticeable malodour	/
P.O <sub>2</sub> - Content as is	%	56.16	56.00 Mini	ISO-3357/NFT-20486
STPP-content as is	%	94.78	94.00 Mini	ISO-3000/NFT-20492
Other phosphates	%	3.0	6.0 Maxi	ISO-3358/NFT-20488
Temperature Rise Test (TRT)	°C	11.6	10.0-14.0	NFT 20496
Phase I content	%	22.4	16.0-32.0	NFG 20496
Volatile Matter (loss at 135°C -4th)	%	0.54	0.50-1.00	ISO-2483/NFT-20401
Insoluble matter in water	%	0.036	0.100 Maxi	ISO-R850/NFT-20493
Sodium sulphate content	%	1.347	1.500 Maxi	Plasma Emission
Sodium chloride content	%	0.3800	0.5000 Maxi	NFT-20495
Fluoride content	%	0.003	0.300 Maxi	/
Colour Value				
L	/	96.48	95.00 Mini	Hunter L.a.b.
a	/	-0.12	-2.50-2.50	Hunter L.a.b.
b	/	0.74	0.00-5.00	Hunter L.a.b.
Bk Density	g/l	700	700-1000	ISO-697/NFT-73405
R.O.H.				
	OC	82.7	81.0-88.0	OLTEN-TEST
After 1 mn	OC	89.6	85.0-92.0	OLTEN-TEST
After 5 mn				
Particulate size				
> 1000 microns	%	0.00	0.20 Maxi	ISO 2996/NFT-20485
> 500 Microns	%	0.00	2.00 Maxi	ISO 2996/NFT-20485
> 150 microns	%	1.46	15.00 Maxi	ISO 2996/NFT-20485
> 60 micron	%	9.45	50.00 Maxi	ISO 2996/NFT-20485
pH (1% solution)	/	9.59	9.40-10.20	ISO 2996/NFT-20494
Trace metals				
Cr	ppm	1.0	5.00 Maxi	Plasma Emission
Co	ppm	<0.1	5.00 Maxi	Plasma Emission
Ni	ppm	0.8	5.00 Maxi	Plasma Emission
Cu	ppm	<0.2	5.00 Maxi	Plasma Emission
Fe	ppm	34	100 Maxi	Plasma Emission
Ca + Mg	ppm	138	150 Maxi	Plasma Emission

Packing Size : 50 KGS.







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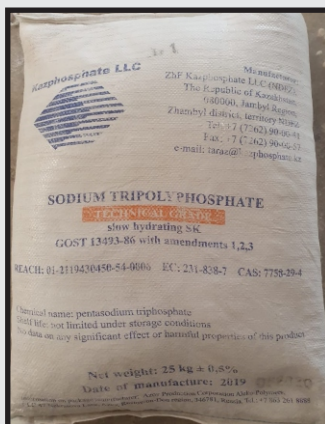


## SODIUM TRIPOYPHOSPHATE (STPP)

### KAZPHOSPHATE LLC KAZAKHSTAN CERTIFICATE OF ANALYSIS

Parameter Description	Norms	343	347	357
Mass share of P2O5, %	57.0 min	57.4	57.4	57.4
Mass share of Na5P3O10, %	94.0 min	94.6	94.9	95.1
Hydration speed:				
After 1 minute, °C	81-88	82	84	82
After 5 minutes, °C	84-95	85	87	86
H2O (1 hour at 150°C), %	1.0 max	0.06	0.06	0.1
Mass share of 1st form of STPP, %	20-30	26	27	27
Mass share of orthophosphate, %	2 max	2	2	2
Mass share of Fe, %	0.010 max	0.005	0.005	0.005
Mass share of water-insoluble substances, %	0.1 max	0.05	0.06	0.7
pH (1% aqueous solution)	9.2-10.3	10.03	9.98	10.02
Granulometry – residue on mesh:				
0.5 mm, %	0.5 max	0.03	0.05	0.1
0.25 mm, %	3.0 max	0.9	0.9	1.7
0.071 mm, %	50 max	27.4	30.9	37.4
Bulk density, g/dm <sup>3</sup>	600-800	800	800	800
Mass share of As, %	0.008 max	0.005	0.005	0.005

Packing Size : 25 KGS.





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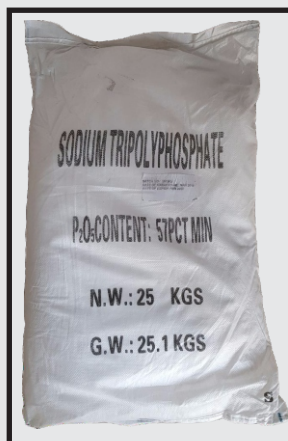
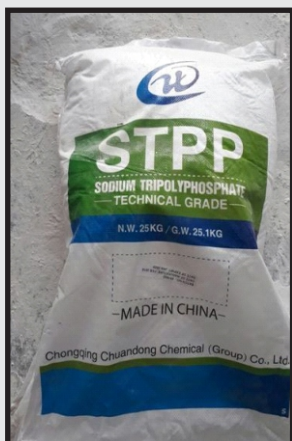


## SODIUM TRIPOLYPHOSPHATE (STPP)

Chongqing Chuandong Chemical  
CHINA

### CERTIFICATE OF ANALYSIS

DESCRIPTION	SPECS
Na <sub>2</sub> P <sub>3</sub> O <sub>10</sub>	94.0% min
P <sub>2</sub> O <sub>5</sub>	57.0% min
insoluble in water	0.10% max
Fe	0.015% max
Whiteness	90% min
Ph (1% Solution)	9.2-10.0
BLuck Density (g/cm <sup>3</sup> )	0.80-0.90
Finess : Passing through 35 Mesh	100%
Finess : Passing through 100 Mesh	>90%
Appearance	White powder
Packing Size : 25 KGS.	





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## SODIUM TRIPOYPHOSPHATE (STPP)

### HUBEI XINGFA CHEMICALS GROUP CO., LTD. CHINA CERTIFICATE OF ANALYSIS

ITEMS	STANDARD	RESULT
Assay (NA5P3O10)%	94.0 min	94.9
P2O5%	57.0 min	57.1
Water insoluble substances%	0.10 max	0.02
PH (1% solution)	9.2~10.0	9.8
Bulk Density	0.75~0.85	0.84
Phase I	20~40	36
Iron (as Fe) ppm	100 max	60
Whiteness%	90 min	92
Packing Size : 25 KGS.		





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## SODIUM LIGNO SULPHONATE (SLS)

VYBORG

RUSSIA

### CERTIFICATE OF ANALYSIS

Sr.No.	DESCRIPTION	SPECS
1	Appearance	homogeneous powder of light-brown color
2	Mass fraction of main substances, % not less	66
3	Mass fraction of dry substances %, not less	92
4	Ash content relating to mass of dry substances, (identification of index carries out according TU in china melting post at t°800°C), %, not more	21
5	Mass fraction of reducing substances relating to mass of dry substances, %, not more	7.5
6	Hydrogen ions concentration of LST solution, pH not less	5

Packing Size : 570 KGS.





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## SODIUM LIGNO SULPHONATE (SLS)

### SOLIKAM RUSSIA CERTIFICATE OF ANALYSIS

PROPERTIES	SPECIFICATION	VALUE
Apperence	POWDER	POWDER
Color	LIGHT YELLOW	LIGHT YELLOW
Mass Fraction of Dry Substance, % Not Less	96.40	96.40
Active Substance, % Not More	61.27	61.27
Mass Fraction of Ash To dry substance, % Not More	23.73	23.73
PH Value	5.25	5.25
Limit of Durables of Dried up Samples by the Stretching, Mpa Not Less	0.71	0.71

Packing Size : 20 KGS.





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## KAOLIN CLAY

GRADE - KS-1

UKRAINE

### CERTIFICATE OF ANALYSIS

DESCRIPTION	SPECS
Mass fraction, % SiO <sub>2</sub> max	48
Mass fraction, % Al <sub>2</sub> O <sub>3</sub> min	36
Mass fraction, % Fe <sub>2</sub> O <sub>3</sub> max	1.0
Mass fraction, % TiO <sub>2</sub> max	0.9
Mass fraction, % CaO max	0.6
pH	7.5-9.5
Humidity, % max	16
Lattice residue 0063, % max	0.60
Mechanical bend strenght, MPa min	0.8

Packing Size : 1300 KGS.





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## KAOLIN CLAY

GRADE - KN-83

UKRAINE

### CERTIFICATE OF ANALYSIS

Moisture : 16,00%

Residues 40 $\mu$  : 0,03%

Chemical Analysis :

Description	Ind
Na <sub>2</sub> O	0,00%
MgO	0,06%
Al <sub>2</sub> O <sub>3</sub>	38,29%
SiO <sub>2</sub>	47,58%
P <sub>2</sub> O <sub>5</sub>	0,07%
S	0
K <sub>2</sub> O	0,18%
CaO	0,05%
TiO <sub>2</sub>	1,07%
MnO	0,02%
Fe <sub>2</sub> O <sub>3</sub>	0,30%
L.O.I. (%)	13,58%
Shrinkage (%)	7,23%
<b>Colorimetric Values, 1200 C D65/2° :</b>	
Green Filter	89,097
Bule Filter	83,16
Yellow Filter	6,66
L*	97,630
a*	0,190
b*	1,370
Packing Size : 1300 KGS.	





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## BENTONITE

### MM AGENCY LTD. STI. POWDER BENTONITE TURKEY CERTIFICATE OF ANALYSIS

Chemical Properties		
SiO <sub>2</sub>	%	76.00
AL <sub>2</sub> O <sub>3</sub>	%	13.0
Fe <sub>2</sub> O <sub>3</sub>	%	0.99
CaO	%	1.15
MgO	%	1.40
Na <sub>2</sub> O	%	0.70
K <sub>2</sub> O	%	1.45
TiO <sub>2</sub>	%	0.11
LOI	%	4.67

Physical Properties		
Montmorillonite	%	B0-85
Grit Content	%	1 Max
Moisture	%	Max 8
Swelling	ml <sub>2</sub> gr	10-12
Raw Whiteness	%	90-92
Water of Plasticity	%	65-75
L	%	Min. 90
A	%	0.45-50
B	%	7-9
Size		200 MESH







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## PROPYLENE GLYCOL

SHANDONG SHIDA SHENGHUA CHEMICAL GROUP CO. LTD.  
CHINA

### CERTIFICATE OF ANALYSIS

ITEM	UNIT	SPECIFICATION	RESULT
PG content	Wt%	99.00 min	99.91
Moisture	%	0.20 max	0.026
Density (20°C)	g/cm <sup>3</sup>	1.035-1.040	1.038
Index of refraction	n <sub>D20</sub>	1.428-1.435	1.432
Acidity	%	0.02 max	0.003
Distillation range	°C	183-190	184-189
Colourity (Pt-Co)	APHA	16	5
Appearance		Coloriess, Viscous, transparent liquid	Coloriess, Viscous, transparent liquid
Packing Size : 215 KGS. STEEL DRUM			





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## MELAMINE

SHANDONG SHUNTIAN CHEMICAL GROUP CO. LTD.

CHINA

### CERTIFICATE OF ANALYSIS

SUBJECT	STANDARDS	UNIT	MEASURED VALUES
Purity	99.8	%	99.87
Moisture	0.1	%	0.05
PH Value	7.5-9.5	/	8.56
Ash Content	0.03	%	0.01
Turbidity	20	Degree	20
Pt/Co Scale	20	Hazen	20
Appearance	White Powder Foreign Substance		
Product Judgement			
Packing Size : 25 KGS.			





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## PHTHALIC ANHYDRIDE

AEKYUNG PETROCHEMICAL CO. LTD.

SOUTH KOREA

### CERTIFICATE OF ANALYSIS

TEST ITEM	UNIT	GUARANTEE	RESULT	METHOD (REMARKS)
MOLTEN COLOR	APHA	F20/M15 MAX	10	PA01 (ASTM D3366)
STABILITY COLOR	APHA	40 MAX	30	PA023 (ASTM D3366)
SOLIDIFICATION POINT	°C	130.90 MIN	131.50	PA03 (ASTM D1493)
APPEARANCE	W/F	WHITE FLAKE	WHITE FLAKE	PA01 (ASTM D3366)
PURITY	%	99.85 MIN	99.90	PA06 (GC)

Packing Size : 25 KGS.





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## MALEIC ANHYDRIDE

### ZIBO QIXIANG TENGDA CHEMICAL CO., LTD CHINA CERTIFICATE OF ANALYSIS

PROPERTY	UNITS	SPECIFICATION	RESULTS
Appearance		White briquettes	White briquettes
Purity (BY MA)	WT%	≥ 99.5%	99.71%
Molten Colour	APHA	≤ 25	13
Solidifying Point	°C	≥52.5	52.7
Ash	WT%	<0.005	<0.001
Iron	PPM	≤3%	0.32

Packing Size : 25 KGS.





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## MALEIC ANHYDRIDE

### YONGSHAN CHEMICALS INC. SOUTH KOREA CERTIFICATE OF ANALYSIS

PROPERTY	TEST METHOD	UNIT	TEST RESULTS
Appearance	WHITE BRIQUET OR PASTIL TYPE	WHITE BRIQUET TYPE	VISUAL
Molten Color (Apha)	20 MAX	9	JIS K 1359
Purity (Total Acid) wt%	99.5 MIN	99.91	JIS K 1359
Solidification Point °C	52.5 MIN	52.6	JIS K 1359
ASH, wt%	0.001 MAX	0.0007	JIS K 1359
IRON (PPM)	1 MAX	< 1	ABSORPTION SPECTOPHOTOMETRY
Packing Size : 25 KGS.			





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## PVC RESIN

FORMOSA PLASTICS CORPORATIONS

TAIWAN

GRADE : S65D

CERTIFICATE OF ANALYSIS

ITEM	UNIT	QUALITY	VALUE
Polymerization Degree	P	1000-1100	1040
Volatile Matter	%	0-0.3	0.16~0.18
Bulk Density	g/cc	0.53-0.57	0.560~0.561
Through 42 Mesh	%	99.99-100	99.99
Foreign Matter	pc/100g	Max-60	12~20
200 mesh-Pan	%	0.15	11.6
VCM Residual	ppm	0.1	0.3

Packing Size : 25 KGS.

**Application :** This resin is intended for rigid molding articles processing, particularly for extrusion process of rigid pipe with high extrusion quantity





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## PVC RESIN

FORMOSA PLASTICS CORPORATIONS

TAIWAN

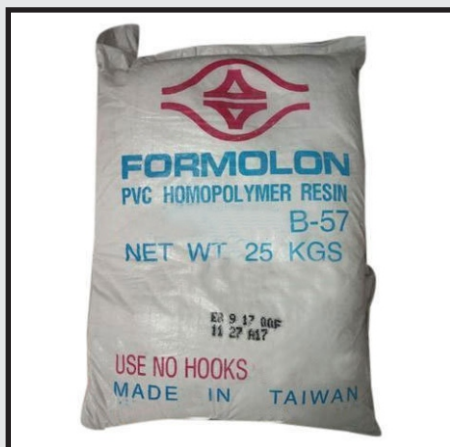
GRADE : B-57

CERTIFICATE OF ANALYSIS

ITEM	UNIT	QUALITY	VALUE
Polymerization Degree	P	590-650	620
Volatile Matter	%	0-0.3	0.15~0.17
Bulk Density	g/cc	0.58-0.62	0.602~0.603
Through 42 Mesh	%	99.99-100	99.99
Foreign Matter	pc/100g	Max-50	16~20
VCM Residual	ppm	0-100	8.7

Packing Size : 25 KGS.

**Application :** Used for compounding with copolymer C-8/C-15 to manufacture rigid sheet and tiles, especially used for transparent bottles manufactured by extrusion and injection stretch or non stretch blow molding machines.





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## PVC RESIN

LG CHEM

KOREA

GRADE : LS - 100H

### CERTIFICATE OF ANALYSIS

CHARACTERISTICS	Value
Degree of polymerization	1030±3
K-Value	66
Particle Size Distribution	MAX .5
Bulk Density	0.595±0.025
Real Density	1.4
Heat Loss	Max 0.2

Packing Size : 25 KGS. PAPER BAG

**Application :** This resin is intended for rigid molding articles processing, particularly for extrusion process of rigid pipe with high extrusion quantity







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## METHYLENE CHLORIDE

FORMOSA PLASTICS CORPORATIONS

TAIWAN

### CERTIFICATE OF ANALYSIS

ITEM		APPEARANCE	COLOR (APHA)	MOISTURE (PPM)	ACIDITY AS ACID (HCL) (PPM)	NON-VOLATILE MATTER (PPM)	SPECIFIC GRAVITY (25.0 °C)	PURITY (%)
LOT No.	TEST METHOD	JIS K8161	JIS K8001	JIS K0068	JIS K8161	JIS K0067	JIS K8001	JIS K8001
1	0224	CLEAR	5	33	0	8	1.323	99.98
2	0227	CLEAR	5	38	0	8	1.323	99.98
3	0228	CLEAR	5	39	0	8	1.323	99.98
4	0301	CLEAR	5	36	0	8	1.323	99.98
5	0302	CLEAR	5	38	0	7	1.323	99.98
6	0306	CLEAR	5	38	0	8	1.323	99.98
7	0308	CLEAR	5	37	0	9	1.323	99.98
8	0309	CLEAR	5	38	0	8	1.323	99.98
9	0312	CLEAR	5	38	0	7	1.323	99.98

Packing Size : 260 KGS. DRUM





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## BORAX DECAHYDRATE

### BORON INDUSTRIES INDIA CERTIFICATE OF ANALYSIS

Physical Properties	
Molecular Weight	381.35
Appearance	Colourless Transparent Crystals
Bulk Density (Loose)	1.78 gms/cc
Particle Size	3-5 Inches

Material Safety Data Sheet	
Toxicity	Toxic, if swallowed
Transportation Category	Non Hazardous
Inflammability	Non Flammable

Chemical Properties	
Boron Content (as B)	10.5% Min
Boron Content (as B <sub>2</sub> O <sub>3</sub> )	36.4% Typical
Na <sub>2</sub> O	16.2% Typical
Matter Insoluble in Water	1.0% Max

Solubility and pH	
Solubility in water	
At 20° C	4.70%
At 30° C	65.64%

Packing Size : 50 KG. HDPE BAGS WITH INNER LINE





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## BORAX PENTAHYDRATE

SEARLES VALLEY MINERALS

USA

### CERTIFICATE OF ANALYSIS

Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ·5H <sub>2</sub> O	102.3	%
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	70.7	%
B <sub>2</sub> O <sub>3</sub>	48.9	%
Na <sub>2</sub> O	21.8	%
Cl	192	ppm
Na <sub>2</sub> SO <sub>4</sub>	110	ppm
H <sub>2</sub> O (by diff.)	29.3	%
Fe	1	ppm
+12	0	%
Packing Size : 25 KGS.		





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## TITANIUM DIOXIDE

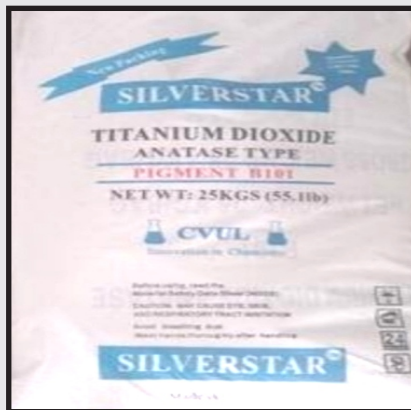
### SILVERSTAR

### ANATASE (PIGMENT) B101

### CHINA

## CERTIFICATE OF ANALYSIS

Content of Tio2% (m/m)	≥98	98.7
Color	Note lower than	Not lower than
(Compared with standard Product)		
Tint-reducing Power	≥100	102
(Compared with standard product)		
Volatile 105°C% (m/m)	≤0.5	0.46
Water Soluble % (m/m)	≤0.6	0.43
PH of water suspension	6.5 ~ 8.0	7.5
Oil Absorption g/100g	≤26	23
Residue (45 μm%) (m/m)	≤0.10	0.05
Whiteness		97.6
Packing Size : 25 KGS.		





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## TITANIUM DIOXIDE

LAWN MAN

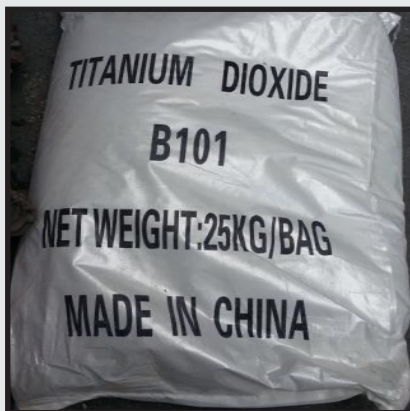
(PLAIN BAG PACKING)

ANATASE (PIGMENT) B101

CHINA

## CERTIFICATE OF ANALYSIS

Content of TiO <sub>2</sub> % (m/m)	≥98	98.76
Color (Compared with standard product)	Not lower than	Note lower than
Tint-reducing power (Compared with standard product)	≥100	108
Volatiles 1050C%(m/m)	≤0.5	0.45
Water Soluble% (m/m)	≤0.6	0.50
Ph of water suspension	6.5~8.0	7.2
Oil absorption g/100g	≤0.6	22.6
Residue (45 μm%) (m/m)	≤0.10	0.05
Whiteness		97.00
Packing Size : 25 KGS.		





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## BITUMEN

GRADE : 60/70

IRAN

### CERTIFICATE OF ANALYSIS

SPECIFICATION	RESULT	STANDARD RANGE		TEST METHOD
		MIN	MAX	
PENETRATION @ 25°C, 0.1MM	65	60	70	ASTM D5
SOFTENING POINT (R&B), °C	50.6	46	---	ASTM D36
DUCTILITY @ 250C, 5CM/MIN, Cm	>100	100	---	ASTM D 113
Sport Test, Naphta	NEG			AASHTO T102
Flash Point, °C	308	230	---	ASTM D92
Solubility in Tce, %WT	99.9	99	---	ASTM D2042
Density @ 25 °C kg/m3	1012.4	---	---	ASTM D70
Loss on Heating, WT%	0.007	---	---	ASTM D6
Drop in Penetration after Heating %	6.92	---	---	ASTM D6&D5





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## BORIC ACID

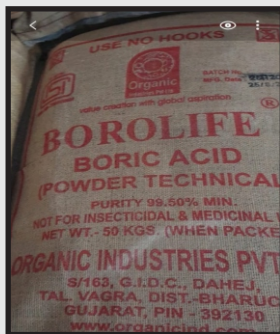
BOROLIFE

TECHNICAL GRADE

INDIA

## CERTIFICATE OF ANALYSIS

CONTAIN	RESULT
Assay, $H_3Bo_3$ (on Dried Basis)	99.73%
pH (3.33% of Soin. @ room Temp.)	4.01
Clarity & Colour (3.33% of Soin.)	Clear & Colourless
Sulphate (as $So_4$ )	<1000 ppm
Chloride (as Cl)	<100 ppm
Iron as (as Fe)	<10 ppm
Ardenic (as AS)	<5 ppm
Heavy Metal (as Pb)	<10 ppm
Loss on Drying	0.25%
Insoluble Mattre	NIL
Bulk Density	556 Kg/m <sup>3</sup>
Particle Size (-200)	91.45%
$B_2O_3$	56.24%
Water	43.55%
Packing Size : 50 KGS.	





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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT BRILLIANT WHITE-FINE CERTIFICATE OF ANALYSIS

GRADE	FINE
APPEARANCE	BRILLIANT WHITE Free from foreign matter & dirt Must be free from any type of LUMPS
PARTICLE SIZE	SPEX
> 850 MICRON	N/A
> 425 MICRON	0
> 300 MICRON	1% (max)
> 150 MICRON	20%(max)
< 150 MICRON	80%(min)
MOISTURE - MAX %	0.50
WATER INSOLUBLE MATTER	
a) FREE FLOW AGENT - MIN %	-
b) OTHER INSOLUBLE - MAX %	0.15
<b>CHEMICAL ANALYSIS:</b>	
CALCIUM AS Ca - MAX %	0.40
MAGNESIUM AS Mg - MAX %	0.15
SULPHATE AS So4 - MAX %	1.00
SODIUM CHLORIDE (NaCl) - MIN %	97.50
IODINE as I2 (When Packed) ppm	-
WATER HARDNESS(80gpl)ppm Max	NA
IRON Content As Fe	<10ppm
Water Soluble Matter other than NaCl	2.50 % max
PFC	<10ppm
Black Particle per kg (max)	
Packing Size : 50 KGS.	







# RYAN INTERNATIONAL

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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT EFF FINE GRADE CERTIFICATE OF ANALYSIS

SPECIFICATION			
APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
PARTICLE SIZE	SPEX		
< 600 MIC	%	MAX	0
> 300 MIC	%	MAX	0
<300 MIC TO>150MIC	%	MAX	20
<150 MIC	%	MIN	80
3 MOISTURE	%	MAX	0.50
(ON DRY BASIS % BY MASS)			
WATER INSOLUBLE MATTER	%	MAX	0.15
FREE FLOW AGENT	%	MIN	0.60
CALCIUM (as Ca water soluble)	%	MAX	0.30
MAGNESIUM (as Mg as water soluble )	%	MAX	0.15
SULPHATE AS SO4	%	MAX	1.00
CHLORIDE Content (as NaCl)	%	MIN	97.50
IODINE ASC I2	ppm	MIN	-
IRON CONTENT AS Fe	ppm	MAX	<10
Packing Size : 50 KGS.			





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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT MEDIUM GRADE CERTIFICATE OF ANALYSIS

SPECIFICATION			
1. APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
2. PARTICLE SIZE	SPEX		
<1000 MIC TO> 850 MIC	%	MAX	5
< 850 MIC TO >150MIC	%	MIN	85
<150 MIC	%	MAX	10
3. MOISTURE	%	MAX	0.20
(ON DRY BASIS % BY MASS)			
4. WATER INSOLUBLE MATTER	%	MAX	0.035
5. CALCIUM ( as Ca water soluble)	%	MAX	0.082
6. MAGNESIUM (as Mg as water soluble)	%	MAX	0.065
7. SULPHATE AS SO <sub>4</sub>	%	MAX	0.29
8. CHLORIDE Content (as NaCl)	%	MIN	99.30
9. IRON CONTENT AS Fe	ppm	MAX	<10 ppm
10. IODINE ASC I <sub>2</sub>	ppm		-
Packing Size : 50 KGS.			





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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT MEDIUM ISI 7224 GRADE CERTIFICATE OF ANALYSIS

SPECIFICATION			
APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
PARTICLE SIZE	SPEX		
<1000 MIC TO > 850 MIC	%	MAX	5
< 850 MIC TO >150MIC	%	MIN	85
<150 MIC	%	MAX	10
MOISTURE	%	MAX	0.25
(ON DRY BASIS % BY MASS)			
WATER INSOLUBLE MATTER	%	MAX	0.05
CALCIUM (as Ca water soluble)	%	MAX	0.12
MAGNESIUM (as Mg as water soluble)	%	MAX	0.08
SULPHATE AS SO <sub>4</sub>	%	MAX	0.4
CHLORIDE Content (as NaCl)	%	MIN	99.00
IRON CONTENT AS Fe	ppm	MAX	<10ppm
IODINE ASC I <sub>2</sub>	ppm	MIN	20

Packing Size : 50 KGS.





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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT PURE GRADE CERTIFICATE OF ANALYSIS

SPECIFICATION			
APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
PARTICLE SIZE	SPEX		
> 850 MIC	%		0
< 850 MIC TO >150MIC	%	MIN	94
<150 MIC	%	MAX	6
MOISTURE	%	MAX	0.20
(ON DRY BASIS % BY MASS)			
WATER INSOLUBLE MATTER	%	MAX	0.03
CALCIUM (as Ca water soluble)	%	MAX	0.02
MAGNESIUM (as Mg as water soluble )	%	MAX	0.03
SULPHATE AS SO <sub>4</sub>	%	MAX	0.10
CHLORIDE Content (as NaCl)	%	MIN	99.50
HARDNESS IN SOLUTION 80 gpl	ppm	MAX	150.00
IRON CONTENT AS Fe	ppm	MAX	<10 ppm
IODINE ASC I <sub>2</sub>	ppm	MAX	0
Packing Size : 50 KGS.			





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## INDUSTRIAL SALT

### GHCL SUPER REFINED SALT (WITH SILICA) FREE FLOW MEDIUM ISI : 7224 FOOD GRADE SALT CERTIFICATE OF ANALYSIS

SPECIFICATION			
APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
PARTICLE SIZE	SPEX		
<1000 MIC TO > 850 MIC	%	MAX	5
< 850 MIC > 150 MIC	%	MIN	85
<150 MIC	%	MAX	10
3 MOISTURE	%	MAX	0.25
(ON DRY BASIS % BY MASS)			
WATER INSOLUBLE MATTER	%	MAX	0.08
FREE FLOW AGENT	%	MIN	0.25
CALCIUM (as Ca water soluble)	%	MAX	0.12
MAGNESIUM (as Mg as water soluble )	%	MAX	0.08
SULPHATE AS SO <sub>4</sub>	%	MAX	0.40
CHLORIDE Content (as NaCl)	%	MIN	99.00
IRON CONTENT AS Fe	ppm	MAX	<10 ppm
IODINE ASC I <sub>2</sub>	ppm	MAX	30
Packing Size : 50 KGS.			





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Importer & Trader for Chemicals & Minerals

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## INDUSTRIAL SALT

**GHCL SUPER REFINED SALT**

**30 MESH SALT**

**CERTIFICATE OF ANALYSIS**

SPECIFICATION			
APPEARANCE	WHITE CRYSTALLINE FREE FROM ANY FOREIGN MATTER & DIRT		
PARTICLE SIZE	SPEX		
> 600 MIC	%	MAX	0
< 600 MIC TO>500MIC	%	MAX	10
<500 MIC TO>150MIC	%	MIN	80
<150 MIC	%	MAX	10
(ON DRY BASIS % BY MASS)			
WATER INSOLUBLE MATTER	%	MAX	0.10
CALCIUM (as Ca water soluble)	%	MAX	0.15
MAGNESIUM (as Mg as water soluble )	%	MAX	0.10
SULPHATE AS SO <sub>4</sub>	%	MAX	50
CHLORIDE Content (as NaCl)	%	MIN	98.80
IRON CONTENT AS Fe	ppm	MAX	<10ppm
IODINE ASC I <sub>2</sub>	ppm		*
pH of 10% Solution	Meter		6.5(+/-)0.5
Packing Size : 50 KGS.			

