

### 1. Urea Fertilizer (OC.(NH<sub>2</sub>)<sub>2</sub>)

<b>Sr.No</b>	<b>Parameters</b>	<b>Specified Limit</b>
1	Physical Appearance	a) White, odorless prills b) Readily soluble in Water: less soluble in Alcohol; and slightly soluble in Ether.
2	Nitrogen Contents (Kjeldahl method)	46.0 % minimum.
3	pH (10% aqueous solution)	8.0-9.0
4	Ammonium Salts presence	0.6% or 6.0 mg./kg

### 2. Soft Wood Bleached Kraft Pulp - Grade-A

<b>Sr.No</b>	<b>Parameters</b>	<b>Specified Limit</b>
1	Appearance	Pure white thin sheet
2	Iso Brightness % Above	91.4%
3	Dirt, ppm	1.7
4	Moisture % (max)	10-12
5	Viscosity	cps 17
6	PH	7
7	Base weight, g/m	2 970
8	Mullen ,kpa	1400
9	Calcium, ppm	260
10	Copper , ppm	Below 0.1
11	Iron , ppm	2.5
12	Silica, ppm	1.4

### Softwood Bleached Kraft Pulp - Grade-B

<u>Sr.No</u>	<u>Parameters</u>	<u>Specification</u>
<u>1</u>	Brightness (Avg)	89.9%
<u>2</u>	Dirt	0.9ppm
<u>3</u>	Breaking length	9600 meters
<u>4</u>	Tear	127 grams force
<u>5</u>	Burst	74 psi
<u>6</u>	Bulk	1.5 g/cm <sup>3</sup>
<u>7</u>	Viscosity (Avg.)	20.7 Cannon-Fenske
<u>8</u>	Air Dry	95%
<u>9</u>	Freeness	500CSF
<u>10</u>	Fiber length	2.3 mm

### 3. Hexamine un-stabilized

<u>S.No.</u>	<u>Parameter</u>	<u>Specified limits</u>
1.	Appearance	White crystalline powder
2	Grade	Un Stabilized
3	Purity % <u>&gt;</u>	99.3%
4	Moisture % <u>&lt;</u>	0.5
5	Ash % <u>&lt;</u>	0.03
6	Solution Appearance	Clear free from impurities
7	Heavy Metal (Measured as pb) % <u>&lt;</u>	0.001%
8	Chloride I (Measured as Cl) % <u>&lt;</u>	0.015
9	Sulfamate (Measured as SO <sub>4</sub> ) % <u>&lt;</u>	0.02
10	Ammonium (Measured as SO <sub>4</sub> ) % <u>&lt;</u>	0.001

#### 4. FireWood

Sr.#	Parameters	Specified Limits
1	Dia	6-9 inch
2	Length	2 ft
3	Type	kekar, bairi, shesham

#### 5. Phenol

##### Specification of material - Phenol.

S.No.	Parameter	Specified limits
1.	Appearance	White crystalline mass which turns pink or red if not perfectly pure.
2	Purity %>_	100%
3	Freezing Point	40–41C
4	Density (Purest Form) - Density of 87.30% Solution - Density of 93.80% Solution	1.07 1.0635 1.0692
5	Solubility	Soluble in Alcohol, Water, Ether, Glycerol, Chloroform, Carbon disulfide, Petroleum, fixed or volatile oils and alkalis

#### 6. Sea Salt

Sr.No	Parameters	Specified Limit
1	Physical Appearance	Crystalline & white in colour
2	Moisture Contents	5% max.
3	Matter Insoluble	2% max.

#### 7. Titanium Dioxide Rutile

##### Grade Specification of material

Titanium Dioxide Rutile Grade

Sr.No	Parameters	Specified Limits
1	Appearance	Pure White powder

2	Composition – TiO <sub>2</sub>	91.0%
3	Specific Gravity	4.0
4	Bulking value	0.0300gallon/lb
5	pH	6.5-7.5
6	Oil Absorption	28
7	Retain on 325 mesh	0.01% max.
8	Chalk Resistance	excellent
9	Inorganic surface treatment	Alumina & silica

#### 08. Polypropylene Woven Bags (With 2 Liners)

Sr.No	Parameters	Specified Limits
1	Size	86cm*57cm
2	Weight	95gm
3	Colour	White/Super White/Beige

#### Polythene Liner

Sr.No	Parameters	Specified Limits
1	Size	90cm*63cm
2	Weight	50gm
	<u>Second Liner</u>	
1	Size	90cm*63cm
2	Weight	30gm

#### 9. DISODIUM PHOSPHATE ANHYDROUS

##### SPECIFICATION.

Sr #	Parameters	Specified Limits
1	Physical Appearance	a)Colour less translucent crystal or white powder b) Free from any visible impurities
2	Purity	> 99.50%

3	Phosphate contents (P <sub>2</sub> O <sub>5</sub> )	49.9%
4	pH (02% aqueous solution)	9.0 <sub>+0.5</sub>
5	Loss on drying at 120°C for 1 hour.	<1.0%

### 10. Zinc Oxide

Sr.No	Parameters	Specified Limit
1	Appearance	Fine White Powder
2	Zinc Oxide Content,%>	99.5
3	pH	7~8

### 11. Caustic Soda 50%

Sr.No	Parameters	Specified Limit
1	Physical appearance	Colorless, viscous liquid
2	Concentration (NaOH)	50% <sub>+ 0.5 %</sub>
3	Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	0.5 % max
4	Sodium chloride (NaCl)	0.02 % max.
5	Iron (Fe)	10 ppm max.

### 12. Hydrochloric Acid (HCL)

Sr.No	Parameters	Specified Limit
1	Physical Appearance	a) Clear but Slight yellowish fuming liquid with pungent odour. b) Free from any visible impurities.
2	Purity	>30%
3	Density	1.1490-1.1700

**Note:** Corrosive to skin & body tissues.

### 13. Formic Acid ( HCOOH)

Sr.No	Parameters	Specified Limit
1	Physical Appearance	a) Clear & Colourless fuming liquid of penetrating odour.

		b) Free from any visible impurities.
2	Purity	>84%
3	Chloride content	Nil

**Note:** Corrosive nature and hazardous to skin & body tissues.

#### 14) Zinc Steartae

Specification of Zinc Stearate

Sr.No	Parameters	Specified Limit
1	Appearance	Pure White fluffy powder
2	Zinc Contents%	10.3 – 11.3
3	Free Fatty Acid (measured as Stearic Acid)% <u>&lt;</u>	0.8
4	Loss on Heating %	0.8
5	Melting Point °C	120 <sub>+5</sub>
6	Granularity (Via Screen test)% <u>&lt;</u>	99 (0.045 mm screen test)

#### 15. Dowtherm/Thermex ( Heat Transfer Fluid)

Sr.No	Parameters	Specified Limit
1	Physical Appearance	Liquid
2	Freezing Point	~12°C
3	Boiling Point	257°C

#### 16. Ammonium Sulphamate (High quality)

Specification of material -

**Ammonium Sulphamate**

Virgin Premium Quality and high purity Ammonium Sulphamate (99.5% Minimum)

**17. Specification of material - Melamine 99.8% High Pressure**

S.N	Parameter	Specified limits
1.	Melamine content	99.8%
2	Density	0.55-0.65 g/cm <sup>3</sup>
3	Physical properties	White fine powder, free from any visible impurities
4	Melting Point	345± 2° C
5	Dissolving Test in 37 % F/A	Must be dissolve from 60-80°C

**18. Specification of material - Titanium Di Oxide Anatase Grade (DHA-100 or equivalent**

S.N	Parameter	Specified limits
1.	Appearance	Pure White Powder
2	Composition –TiO <sub>2</sub>	98.0%
3	Whiteness	98%
4	Specific Gravity	4.0
5	Bulking value	0.0300 gallon/lb.
6	PH	6.5~7.5
7	Oil Absorption	20
8	Particle Size	0.3 um
9	Retain on 325 mesh	0.01% max
10	Chalk Resistance	Excellent
11	Inorganic Surface Treatment	Alumina & Silica

**19. P-toluene sulfonamide (PTSA) / KETJENFLEX 6**

<b>Parameters</b>	<b>Specified Limits</b>
Appearance	White crystal
Content	99.5% min
Melting point	136 min
Water content	0.2% max
Color	20 max
Chloride	100ppm max
Sulfate	100ppm max