

 GHCL Limited	SPECIFICATION		SPEC NO. LAB / S11																																																																																												
	DENSE SODA ASH (ALPHA GRADE)		REVISION NO.: 03																																																																																												
			EDITION NO.: 01																																																																																												
			PAGE 01 OF 01																																																																																												
			EFFECTIVE FROM: 02/04/14																																																																																												
APPROVED BY: COO			ISSUED BY: System Co-ordinator																																																																																												
<p>1. SCOPE : The specification prescribes the requirements for Dense Soda ash</p> <p>2. APPLICATION : Soda ash is an industrial chemical used for the manufacture of float, sheet, container and speciality glasses, silicate and some chemicals.</p> <p>3. Nomenclature for SAP</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>FGDSDOLI0050</td> <td>Dense Soda Ash - 50kg, Liner</td> </tr> <tr> <td>FGDSDOLA1300</td> <td>Dense Soda Ash - Jumbo, 1.3 MT, Laminated</td> </tr> <tr> <td>FGDSDOLA1000</td> <td>Dense Soda Ash - Jumbo 1.0 MT, Laminated</td> </tr> <tr> <td>FGDSEXL1300</td> <td>Dense Soda Ash - Jumbo, 1.3 MT, Liner</td> </tr> <tr> <td>FGDSEXL1000</td> <td>Dense Soda Ash - Jumbo 1.0 MT, Liner</td> </tr> </tbody> </table> <p>(All materials other than Beta, Gamma are regraded as Alpha - which is default specification).</p> <p>4. PERFORMANCE STANDARD</p> <table border="1"> <thead> <tr> <th rowspan="2">SR. NO.</th> <th rowspan="2">CHARACTERISTICS</th> <th colspan="2">SPECIFICATION</th> <th rowspan="2">U. O. M.</th> <th rowspan="2">CONFORMANCE STANDARD</th> </tr> <tr> <th>Guaranteed</th> <th>Typical</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Description</td> <td>White, crystalline product, free from dirt & other foreign matter</td> <td>White, crystalline product, free from dirt & other foreign matter</td> <td>-</td> <td rowspan="10">Work instruction no: LAB/FIN/W01 which is generally in conformance with IS-251.</td> </tr> <tr> <td>2</td> <td>Total alkalinity as Na₂CO₃ (Min)</td> <td>99.0</td> <td>99.2</td> <td>% by mass</td> </tr> <tr> <td>3</td> <td>Chloride as NaCl</td> <td>0.4+/-0.1</td> <td>0.3 - 0.4</td> <td>% by mass</td> </tr> <tr> <td>4</td> <td>Fe₂O₃ (Max.)</td> <td>30</td> <td>15</td> <td>ppm</td> </tr> <tr> <td>5</td> <td>Bulk Density</td> <td>951-1250</td> <td>950-1100</td> <td>Gram / litre</td> </tr> <tr> <td>6</td> <td>Sulphate as Na₂SO₄ (Max)</td> <td>0.02</td> <td>0.008</td> <td>% by mass</td> </tr> <tr> <td>7</td> <td>Volatile matter including moisture, (Max)</td> <td>0.7</td> <td>0.5</td> <td>% by mass</td> </tr> <tr> <td>8</td> <td>Matter insoluble in water (Max)</td> <td>0.02</td> <td>0.004</td> <td>% by mass</td> </tr> <tr> <td>9</td> <td>Lightness Factor *</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>L - value (min)</td> <td>90</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>b - value (max)</td> <td>(+)-2.5</td> <td>-</td> <td>-</td> </tr> <tr> <td>10</td> <td>Particle Size Distribution</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>a) +0.850mm (max)</td> <td>20</td> <td>15</td> <td>% by mass</td> </tr> <tr> <td></td> <td>b) - 0.150mm (max)</td> <td>2.5</td> <td>2</td> <td>% by mass</td> </tr> </tbody> </table>					<u>Code</u>	<u>Description</u>	FGDSDOLI0050	Dense Soda Ash - 50kg, Liner	FGDSDOLA1300	Dense Soda Ash - Jumbo, 1.3 MT, Laminated	FGDSDOLA1000	Dense Soda Ash - Jumbo 1.0 MT, Laminated	FGDSEXL1300	Dense Soda Ash - Jumbo, 1.3 MT, Liner	FGDSEXL1000	Dense Soda Ash - Jumbo 1.0 MT, Liner	SR. NO.	CHARACTERISTICS	SPECIFICATION		U. O. M.	CONFORMANCE STANDARD	Guaranteed	Typical	1	Description	White, crystalline product, free from dirt & other foreign matter	White, crystalline product, free from dirt & other foreign matter	-	Work instruction no: LAB/FIN/W01 which is generally in conformance with IS-251.	2	Total alkalinity as Na ₂ CO ₃ (Min)	99.0	99.2	% by mass	3	Chloride as NaCl	0.4+/-0.1	0.3 - 0.4	% by mass	4	Fe ₂ O ₃ (Max.)	30	15	ppm	5	Bulk Density	951-1250	950-1100	Gram / litre	6	Sulphate as Na ₂ SO ₄ (Max)	0.02	0.008	% by mass	7	Volatile matter including moisture, (Max)	0.7	0.5	% by mass	8	Matter insoluble in water (Max)	0.02	0.004	% by mass	9	Lightness Factor *					L - value (min)	90	-	-		b - value (max)	(+)-2.5	-	-	10	Particle Size Distribution					a) +0.850mm (max)	20	15	% by mass		b) - 0.150mm (max)	2.5	2	% by mass
<u>Code</u>	<u>Description</u>																																																																																														
FGDSDOLI0050	Dense Soda Ash - 50kg, Liner																																																																																														
FGDSDOLA1300	Dense Soda Ash - Jumbo, 1.3 MT, Laminated																																																																																														
FGDSDOLA1000	Dense Soda Ash - Jumbo 1.0 MT, Laminated																																																																																														
FGDSEXL1300	Dense Soda Ash - Jumbo, 1.3 MT, Liner																																																																																														
FGDSEXL1000	Dense Soda Ash - Jumbo 1.0 MT, Liner																																																																																														
SR. NO.	CHARACTERISTICS	SPECIFICATION		U. O. M.	CONFORMANCE STANDARD																																																																																										
		Guaranteed	Typical																																																																																												
1	Description	White, crystalline product, free from dirt & other foreign matter	White, crystalline product, free from dirt & other foreign matter	-	Work instruction no: LAB/FIN/W01 which is generally in conformance with IS-251.																																																																																										
2	Total alkalinity as Na ₂ CO ₃ (Min)	99.0	99.2	% by mass																																																																																											
3	Chloride as NaCl	0.4+/-0.1	0.3 - 0.4	% by mass																																																																																											
4	Fe ₂ O ₃ (Max.)	30	15	ppm																																																																																											
5	Bulk Density	951-1250	950-1100	Gram / litre																																																																																											
6	Sulphate as Na ₂ SO ₄ (Max)	0.02	0.008	% by mass																																																																																											
7	Volatile matter including moisture, (Max)	0.7	0.5	% by mass																																																																																											
8	Matter insoluble in water (Max)	0.02	0.004	% by mass																																																																																											
9	Lightness Factor *																																																																																														
	L - value (min)	90	-	-																																																																																											
	b - value (max)	(+)-2.5	-	-																																																																																											
10	Particle Size Distribution																																																																																														
	a) +0.850mm (max)	20	15	% by mass																																																																																											
	b) - 0.150mm (max)	2.5	2	% by mass																																																																																											
<p>* For Overseas customer requirement</p> <p>NOTE : These characteristics are applicable at the time of soda ash packing.</p>																																																																																															
HEAD - Q C			HEAD - Production																																																																																												