



**AGROMED RESOURCES** (SA0540807-P)

## DENSE SODA ASH SPECIFICATION

|                         |                              |
|-------------------------|------------------------------|
| <b>Issue Date</b>       | : 09.10.2017                 |
| <b>Chemical Name</b>    | : Sodium Carbonate Anhydrous |
| <b>Formula:</b>         | : $\text{Na}_2\text{CO}_3$   |
| <b>Molecular Weight</b> | : 105,99                     |
| <b>CAS No</b>           | : 497-19-8                   |
| <b>EINECS No</b>        | : 207-838-8                  |
| <b>Origin</b>           | : Natural Soda               |
| <b>Synonyms</b>         | : Soda Ash                   |

| Chemical Properties      |                |                                                                                 |
|--------------------------|----------------|---------------------------------------------------------------------------------|
| Item                     | Unit           | Value                                                                           |
| $\text{Na}_2\text{CO}_3$ | %              | 99.5 min                                                                        |
| $\text{Na}_2\text{O}$    | %              | 58.2 min                                                                        |
| $\text{NaCl}$            | %              | 0.1 max                                                                         |
| $\text{Na}_2\text{SO}_4$ | %              | 0.1 max                                                                         |
| Fe (Toplam)   Fe (Total) | µg/g           | 10 max                                                                          |
| Water Insolubles         | %              | 0.05 max                                                                        |
| As                       | ppm            | 1 max                                                                           |
| Pb                       | ppm            | 1 max                                                                           |
| Hg                       | ppm            | 1 max                                                                           |
| Solubility               | g/100 ml Water | 45.5 (100°C)<br>49.5 (35.37 °C)<br>7 (0 °C)                                     |
| pH                       | 1 %            | 11.4                                                                            |
| Test for Sodium          |                | Passes Test                                                                     |
| Test for carbonate       |                | Passes Test                                                                     |
| Loss on drying           |                | Not more than 2<br>% (70 °C raising gradually to 300 °C, to<br>constant weight) |

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| Physical Properties |                   |                                                              |
|---------------------|-------------------|--------------------------------------------------------------|
| Item                | Unit              | Value                                                        |
| Bulk Density        | g/cm <sup>3</sup> | 0.95-1.15                                                    |
| Whitiness           | %                 | L*= min. 95 (CIE Lab)                                        |
| Appearance          | Visual            | Colourless crystals or white, granular or crystalline powder |
| Solubility          |                   | Soluble in water.<br>Insoluble in ethanol.                   |
| Particle Size       |                   |                                                              |
| +600 micron (µm)    | %                 | 5 max                                                        |
| +150 micron (µm)    | %                 | 88 min                                                       |
| -75 micron (µm)     | %                 | 5 max                                                        |

#### Standard Packages

- 25 kg or 50 kg polyethylene (PE) FFS bags.
- 1 ton polipropilen (PP) bigbag with inner lining.
- Bulk

#### Storage Conditions

- Must be stored in a covered warehouse, preferably lower than 30°C and 85% relative humidity and well-ventilated warehouse.
- Not recommended to store more than one pallet on other.

### Uses

- Glass
- Chemicals
- Soap and Detergent
- Pulp and Paper
- Flue gas desulfurization
- Water and waste water treatment.

Specifications defined above are valid for the products kept in suitable conditions and not further processed. Please check the Material Safety Data Sheet for detailed information, handling and safety details.