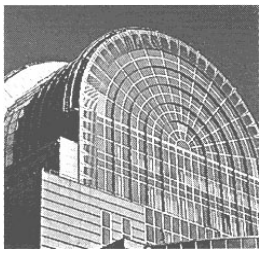
SODA SOLVAY® DENSE

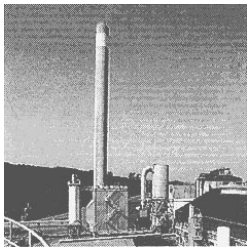
Product Data Sheet

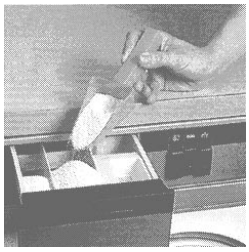
# *SODA SOLVAY® DENSE*

***Dense Soda Ash***

| | |
|---|---|
| *Origin* | **Europe** |
| *Chemical name:*<br>*Sodium carbonate / Soda ash* | |
| *CAS – N°* | 497-19-8 |
| *EINECS – N°* | 207-838-8 |
| *EC – N°* | 011-005-00-2 |
| *CLP Classification: H319* | Causes serious eye irritation |
| *Chemical formula* | $Na_2CO_3$ |
| *Molecular weight* | 106 |
| ***Physical properties*** | |
| *Appearance:*<br>*White powder* | |
| *Density in kg/dm$^3$* | 2,533 |
| *Melting point °C* | 851 |
| *Solubility in water at 20°C*<br>*in g/1000g* | 214 |
| *pH (1% in water)* | 11,26 |







- ***Applications***

*Glass Industry – Raw Material for melting*

*Chemical Industry – Production of sodium derivatives*

*Detergents – Alkaline support*

*Metallurgical processes – Desulfurization of pig iron – Raw material for melting, …*

*Flue gas treatment – Removal of acidic components*

- ***Transport / Packaging***

*Bulk: wagon, truck, ship*

*Packaging: plastic bags, bulk bags*

*Some applications of this product may be regulated or restricted by national or international standards (e.g. food additives, feeding stuff, water treatment, the cosmetic or pharmaceutical industry, etc). The buyer and eventual user, in his sole and entire liability, shall respect those standards, orders of any relevant authority, and all existing patents and intellectual properties rights; and shall comply with the laws and the regulations applicable to our products and/or to his activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.*

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|---|---|---|---|
| Specification | SPE – C 05.51.20 | | |
| Date | 12/2010 | Ed./ Issue | 01 |
| Replace | | | |

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| Typical analytical values | Europe |
|---|---|
| **Chemical analysis** | |
| $Na_2CO_3$ ($Na_2O$) * | 99,6 % (58,3 %) |
| NaCl | 0,13 % |
| $Na_2SO_4$ | 0,01 ~ 0,02 % |
| CaO | 32 ~ 100 ppm |
| MgO | 40 ~ 118 ppm |
| $Fe_2O_3$ | 2 ~ 10 ppm |
| Loss on drying * | 0,12 ~ 0,2 % |
| Free flowing density | 1,02 ~ 1,13 kg/dm$^3$ |
| **Granulometry** | |
| > 2 mm | 0 ~ 0,3 % |
| > 1 mm | 0,4 ~ 7,0 % |
| > 0,5 mm | 12 ~ 40 % |
| < 0,125 mm | 1,6 ~ 3,0 % |
| < 0,063 mm | 0,2 ~ 1,0 % |

## Specification

| | |
|---|---|
| **Chemical analysis** | |
| $Na_2CO_3$ ($Na_2O$) * | ≥ 99 % (57,9 %) |
| NaCl | ≤ 0,15 % |
| $Na_2SO_4$ | ≤ 0,04 % |
| CaO | ≤ 280 ppm |
| MgO | ≤ 150 ppm |
| $Fe_2O_3$ | ≤ 21 ppm |
| Loss on drying * | ≤ 0,5 % |
| Free flowing density | ≥ 0,95 kg/dm$^3$<br>≤ 1,20 kg/dm$^3$ |
| (*) Ex works or after drying (2 hrs at 250°C) | |
| **Granulometry** | |
| > 2 mm | ≤ 1 % |
| > 1 mm | ≤ 15 % |
| < 0,125 mm | ≤ 10 % |

List of analytical methods see: ANA – C 40 00 00 JULY 2000



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