**Annex N1**

**Technical Requirements**

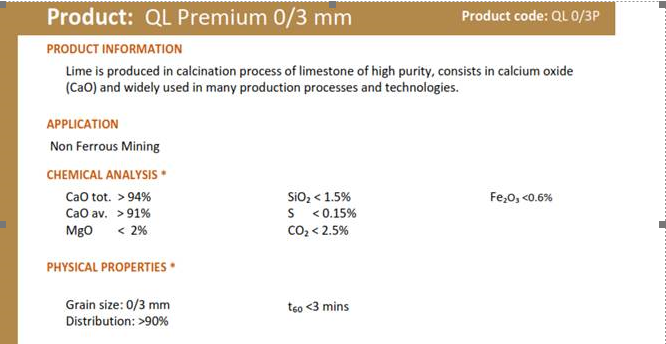
Product Name

* **LIME**

**Specifications**

Richness: 100,00 %CaO Specific mass: 0,90 kg/l

**Acceptable Specifications option 1 – preferable option:**



We would like to have the 1st quality product

High CaO values.

Its particule size  should preferably be more like a 0 to 1 mm than a 0 to 3 mm

**Acceptable Specifications option 2:**

**Description**

Chemical name: calcium oxide

Chemical formula: CaO

Condition: Fine particle powder

Atomic Mass: 56.08

Known as: Lime - slaked and unslaked

Name in accordance with UNE-EN 459: CL 90-Q

**Physical characteristics**

A single-component substance, calcium oxide, ერთკომპონენტიანი ნივთიერება, კალციუმის ოქსიდი, which contains a small percentage of SiO2, Al2O3, Fe2O3, MgO and CaCO3; It is a raw material of natural limestone. The natural product is obtained by calcination at 1200 ºC, approximately CaCO3.

|  |  |
| --- | --- |
| Appearance | white color, dry, odorless, strong hygroscopic nature |
| Crystal structure | cubic |
| PH | 12.4 saturated solution at 25ºC |
| Density | 940 gr/l |
| Boiling temp. | 2.850 ºC |
| Cooling temp. | 2.600 ºC |
| Weight | 3,34 kg/l 20 ºC |
| Solubility H2O | soluble in acid, glycerin and sucrose solutions |
| Reaction with acid | formation of calcium salts by exothermic reaction |
| Reaction with water | calcium hydroxide is produced during the reaction |

**Technical data** marginal volume

CO2 1 % ≤ 3

Total CaO 97 % ≥ 93

Reaction with water 60ºC 4:00 min ≤ 10

SiO2 0.2 % ≤ 0.7

Al2O3 0.2 % ≤ 0.3

Fe2O3 0.15 % ≤ 0.3

Mg O 1 % ≤ 1.2

Combined H2O 0.1 % ≤ 0.3

S 0.5 % ≤ 0.6

Granulometry:

Sieving Method 5 mm 0 %

Sieving Method 2 mm <12 %

**USAGE**

The product is used in agricultural, industrial, environment-related activities and livestock farming. For environmental pH and water hardness regulation, remineralization, metal removal, treatment plant and general drinking, industrial or sewage/waste water treatment. For gas treatment of waste fuel and thermal power stations. For soil sabilization, for preparation of construction slurry.

Lime is used for various purposes: neutralizing, melting, caustic, scouring, drying, absorbing, disinfecting, waterproofing and of course as a raw material.

Regulations

|  |  |
| --- | --- |
| UNE-EN 459 - part 1, 2, 3 | *Limestone for construction* |
| UNE 80502:2003 | *Application of slaked or hydrated lime for soil improvement/stabilization* |
| UNE 80503:2001 | *Use of calcium hydroxide in asphalt mixtures* |
| UNE-EN-12518 | *In chemical products used for the treatment of water for human consumption - limestone* |
| UNE-EN-12485 | *In chemical products used for the treatment of water for human consumption - calcium carbonate, limestone, semi-calcined dolomite* |

Chemical Abstracts Service Registry Number 1305-78-8

European Invertory of Chemical Substances 215-138-9

**Special requirements for shipment - Compulsory**

**Delivery should be done Bulk in a specialized tanker (Silo truck incl. hydraulic discharge) from which the lime can be fed directly to SILO**

**Silo loading pressure is 1bar max.**

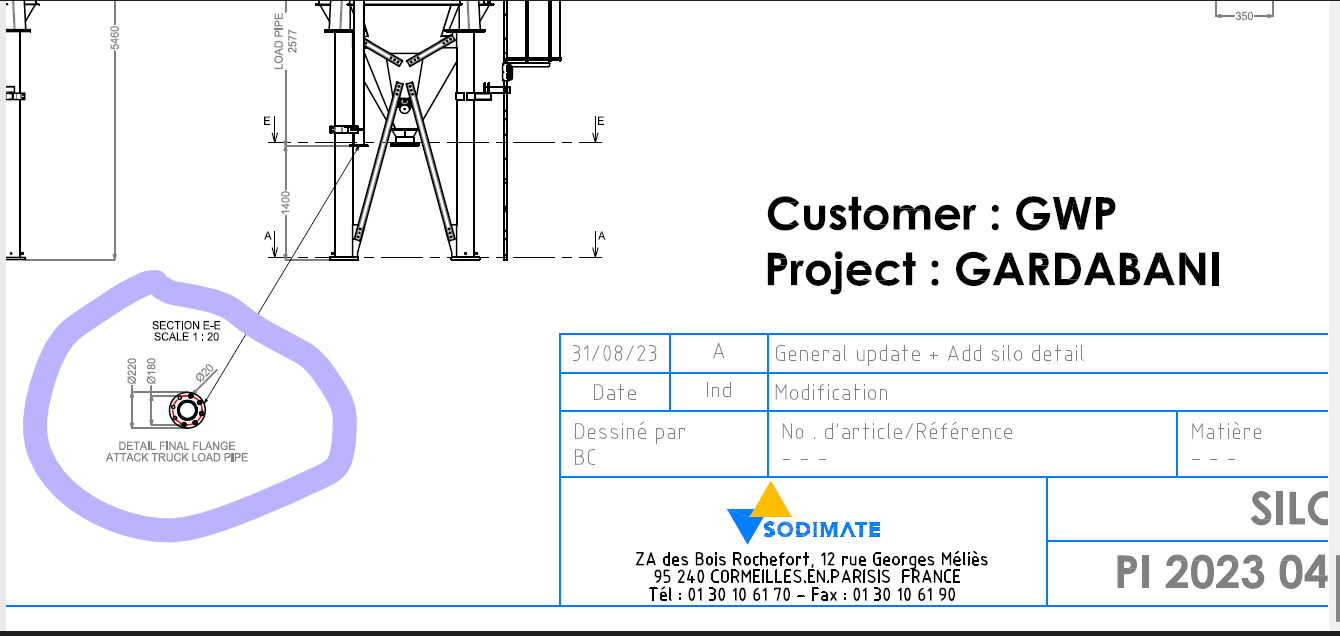


SILOTRUCK should by all means have all the necessary devices (pumps or air impeller) to charge our SILO.

Connection to SILO



Dimensions of the flange needed



Example video for SILOBUS discharging process –please download:

<https://we.tl/t-Okzm8UyPmS>