**Annex N1**

**Technical Requirements**

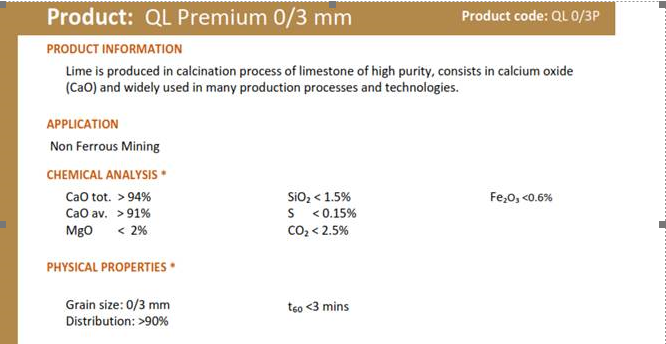
Product Name

* **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.**

**Silo capacity - max. 42 m3**



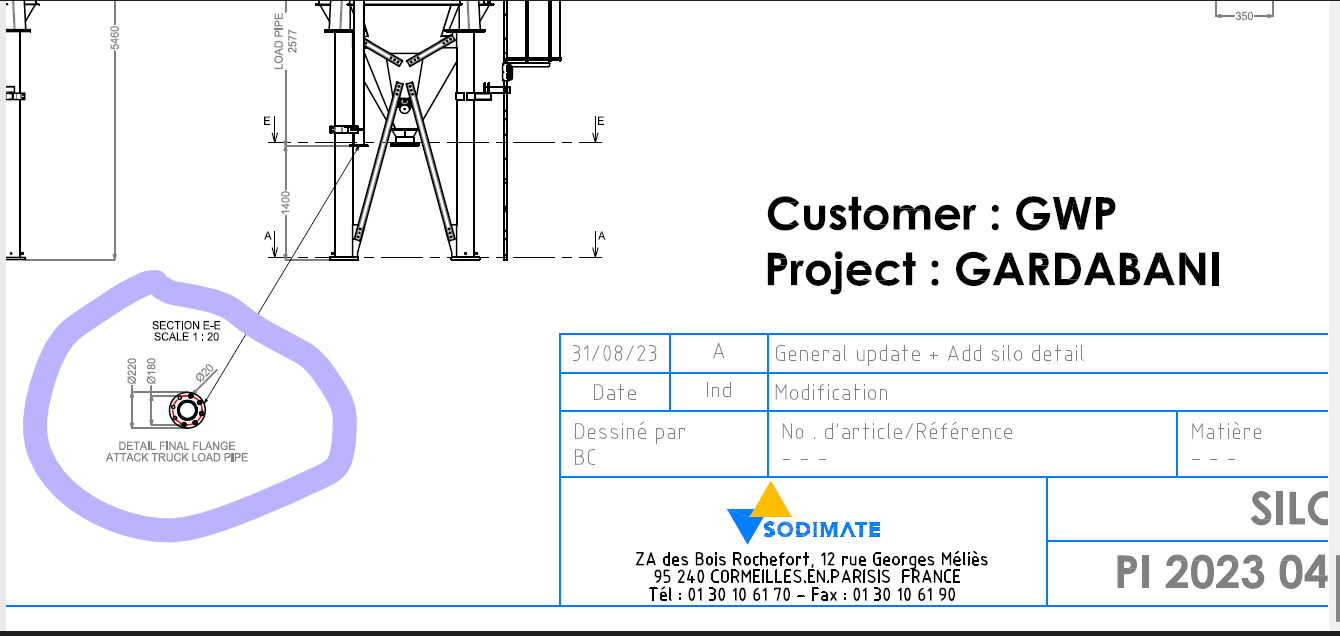
SILOTRUCK should by all means have all the necessary devices (pumps or air impeller) to charge our SILO.

S

Connection to SILO



Dimensions of the flange needed



Example video for SILOBUS discharging process –please download:

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

**Real photos:**