



GALVAPNO

EXTRACTING, PRODUCING, DELIVERING

GALVAPNO



 **GALVAPNO**
galvapno.com.ua

INNOVATIONS
IN LIME PRODUCTION

**GALVAPNO GROUP
IS A NATIONAL AND INTERNATIONAL
MANUFACTURER OF HIGH-QUALITY
LIME AND LIMESTONE**

ABOUT US

Production is located 150 km from the border with Europe



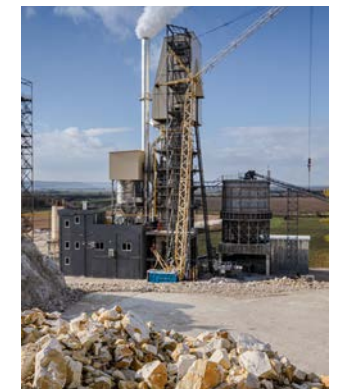
The company provides a full range of limestone extraction, production and delivery of lime to national and international markets.

Our commitment to quality of production guarantees long-lasting safety, promptitude, reliability, and responsible cooperation both to the national and international partners.

On the territory of Stryhantsi quarry in 2022 GALVAPNO Group launched a new modernized complex of lime burning with the application of SYNTHESIS Technology by Italian company QualiCal with the involvement of foreign investments.

GALVAPNO Group is an active company operating in Ukraine in B2B market segment since 2017 and thoroughly monitors global events and innovations in the sphere of technologies and modernization.

The Company is oriented not only towards the national but also the international market and the world quality standards of the manufactured products.



THE STRYHANETS QUARRY HAS PROMISING RESERVES OF 120 MILLION TONS OF LIMESTONE

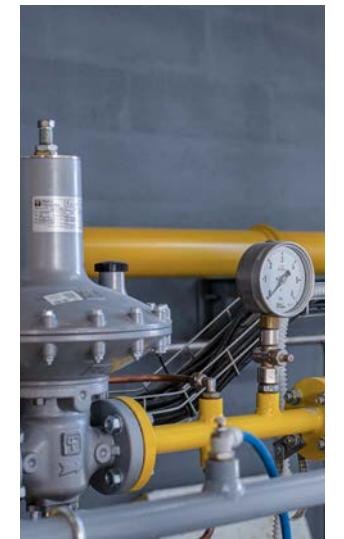
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WE EXTRACT AND PROCESS LIMESTONE IN THE STRYHANETS QUARRY

The advantage of our production is the extraction of high-quality limestone and the location of all facilities on the territory of Stryhantsi quarry providing for the compliance of the constructed lime burning complex with the maximum possible energy efficiency level and the highest level of environmental safety.

By buying the products from **GALVAPNO** Group manufactured on state-of-the-art equipment, our partners get unquestionable advantages.

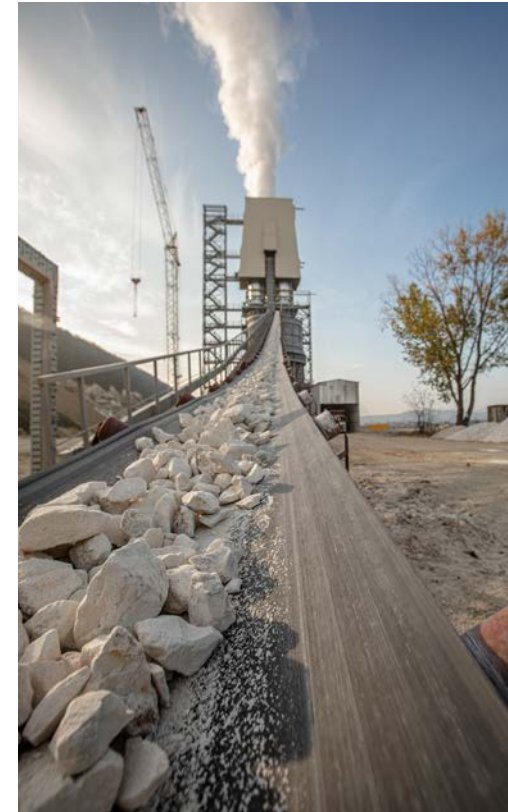
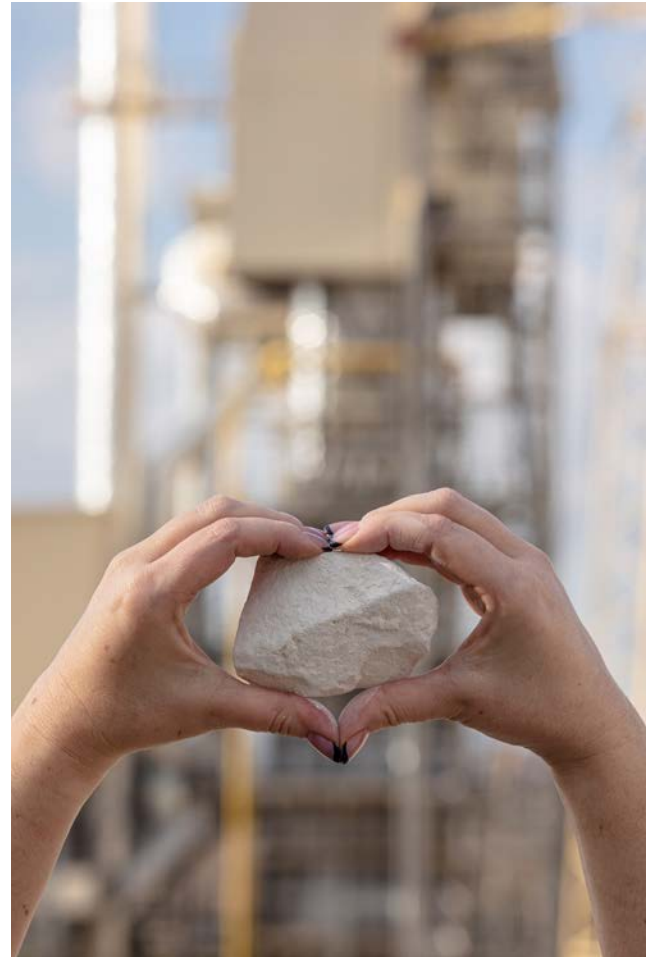


Innovations in lime production

ADVANTAGES OF OUR PRODUCTS



**WE PRODUCE
HIGH-QUALITY LIME**



THE UNIQUENESS OF OUR PRODUCTION



Calcium carbonate (CaCO_3) content is not less than 97% in the raw materials of Stryganetsky quarry



Calcium oxide (CaO) content in the finished product is 95%, which corresponds to global standards



Productivity - 450 tons of lime/day



Maximum application of the limestone deposits with their minimum losses at all stages of processing



The temperature control at all stages of the lime processing



The lowest percentage of additives among similar industries in Ukraine



Modern furnace "SYNTHESIS 90" works on the least polluting type of fuel i.e. natural gas



The modern system of discharge gas treatment



We produce high-quality stone and lime from the extracted raw materials, the characteristics of which remain unchanged



PRODUCTS

**QUICKLIME
FRACTION 0-10 MM**

Calcium lime
CL-90-Q (R5, Psv) 0-10mm
EN 459-1:2015 Building lime

Definition, specifications, and acceptance criteria

Quality Indicator Name	Typical	Actual
CaO+MgO	≥ 90 %	≥ 92 %
MgO	≤ 5 %	≤ 2 %
CO ₂	≤ 4 %	≤ 3 %
SO ₃	≤ 2 %	≤ 0,5 %
SiO ₂	-	≤ 1%
Fe ₂ O ₃	-	≤ 0,5 %
Available lime	≥ 80 %	≥ 85 %
Bulk density	-	≤ 0.8 kg/dm ³
Reactivity t ₆₀ °C	≤ 10 min	≤ 4 min
Particle size > 10mm	-	≤ 10 %

The requirements in EN 459-1 are based on the results of the construction lime testing determined according to EN 459-2.

APPLICATION

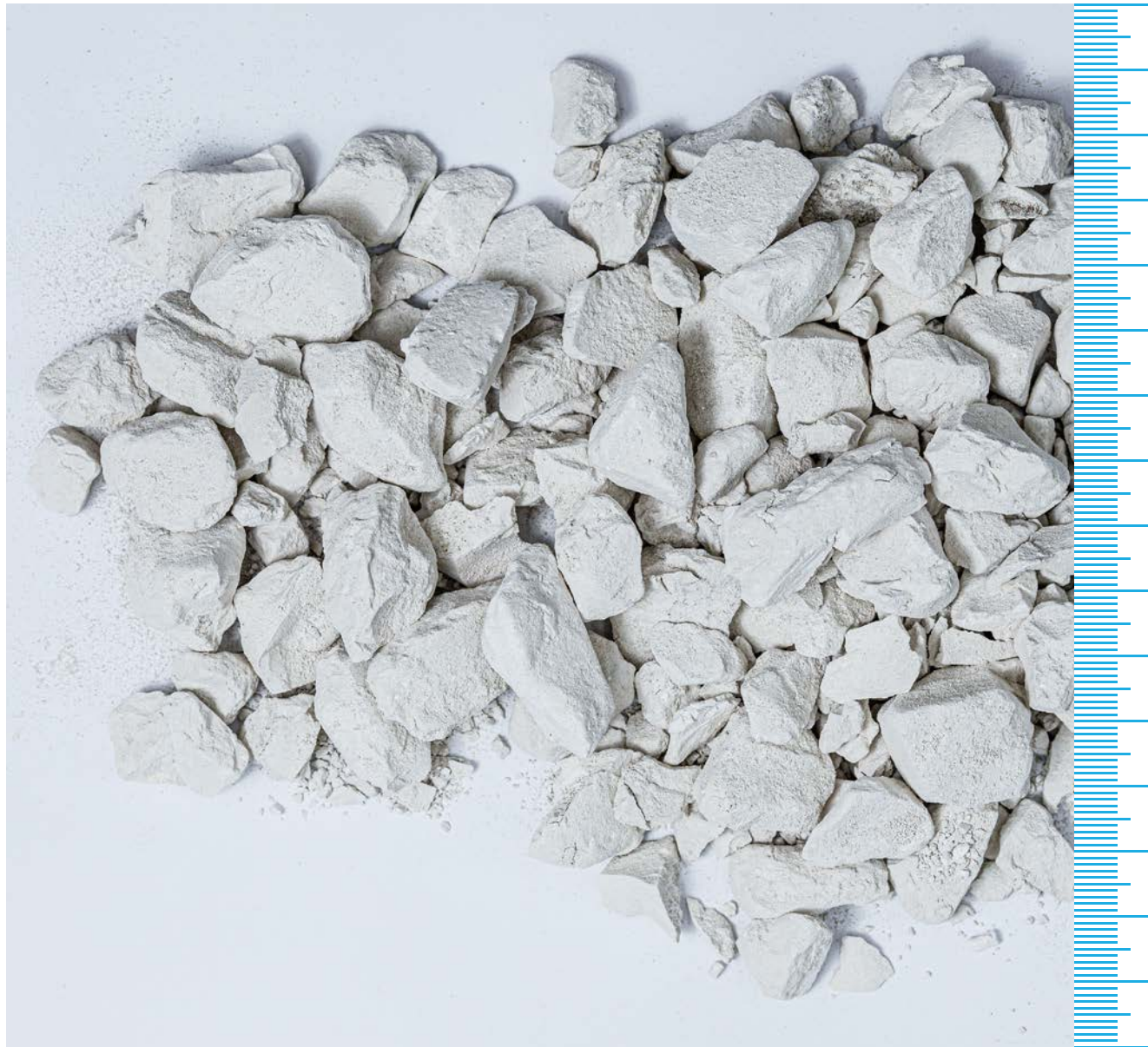
Ground burnt lime is a product received by crushing and shredding the burnt lime into pieces. Calcium oxide CaO is its main component. Highly reactive ground lime is basically used for the production of silica brick, in agriculture, in environment protection.

WARRANTY PERIOD

The warranty period of piecewise burnt lime is 30 days from the day of manufacturing on condition of storage in a damp-proof place.

STANDARD REQUIREMENTS:

Conforms to EN 459-1:2015
Type: CL 90 (R5,Psv)
Testing according to EN 459-2:2010



PRODUCTS

**QUICKLIME
FRACTION 10-30 MM**

Calcium lime
CL-90-Q (R5, Psv) 10-30mm
EN 459-1:2015 Building lime

Definition, specifications, and acceptance criteria

Quality Indicator Name	Typical	Actual
CaO+MgO	≥ 90 %	≥ 92 %
MgO	≤ 5 %	≤ 2 %
CO ₂	≤ 4 %	≤ 3 %
SO ₃	≤ 2 %	≤ 0,5 %
SiO ₂	-	≤ 1 %
Fe ₂ O ₃	-	≤ 0,5 %
Available lime	≥ 80 %	≥ 86 %
Bulk density	-	≤ 0.85 kg/dm ³
Reactivity t ₆₀ °C	≤ 10 min	≤ 4 min
Particle size > 30mm	-	≤ 10 %
Particle size < 10mm	-	≤ 10 %

The requirements in EN 459-1 are based on the results of the construction lime testing determined according to EN 459-2.

APPLICATION

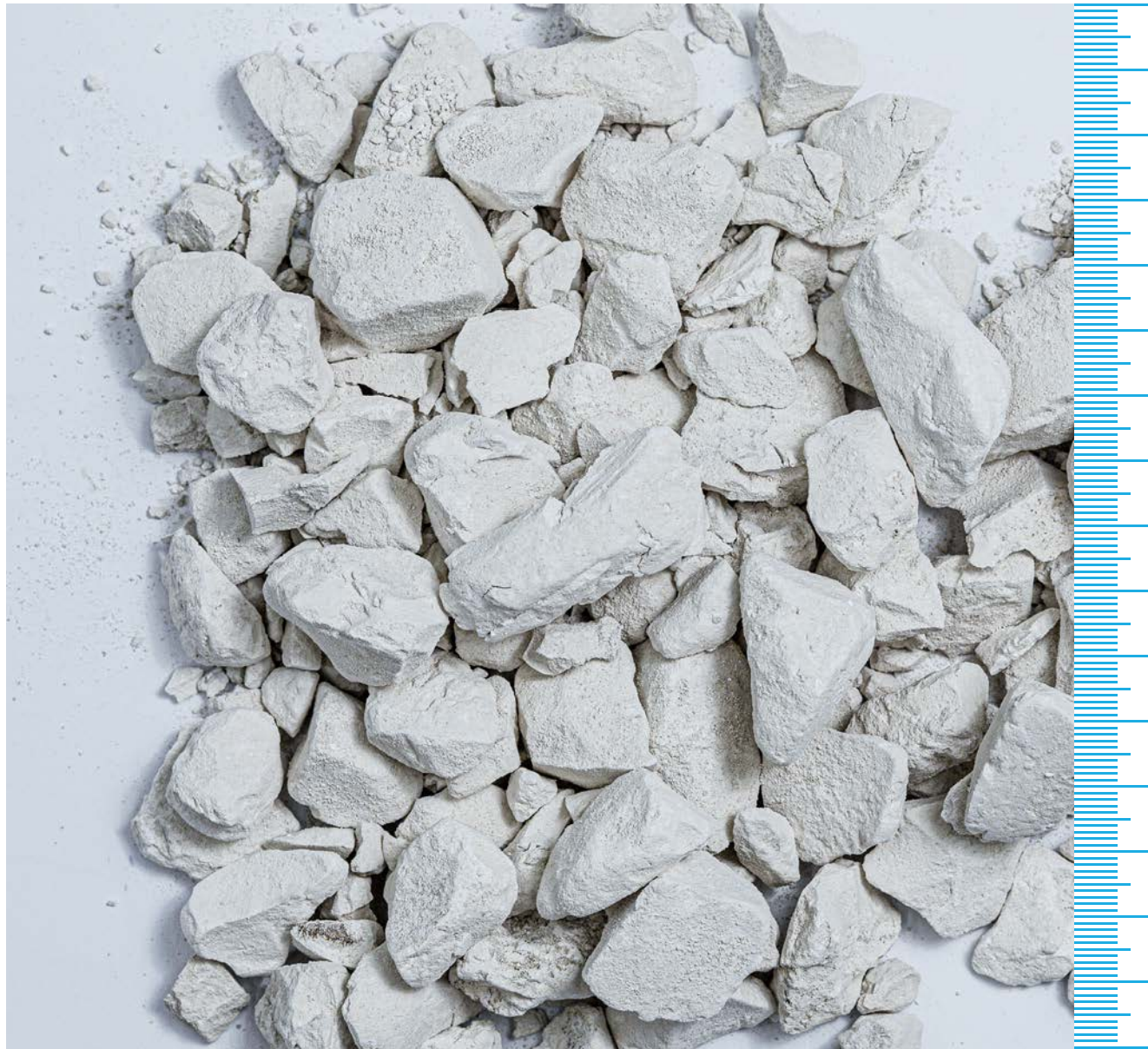
Piecewise burnt lime is a product received by burning the limestone in the pit furnaces. The lumpy quicklime is used in the metal industry, chemical industry, pulp and paper industry, soda industry, and environment protection.

WARRANTY PERIOD

The warranty period of piecewise burnt lime is 30 days from the day of manufacturing on the condition of storage in a damp-proof place.

STANDARD REQUIREMENTS:

Conforms to EN 459-1:2015
Type: CL 90 (R5,Psv)
Testing according to EN 459-2:2010



PRODUCTS
**QUICKLIME
FRACTION 10-50 MM**

Calcium lime
CL-90-Q (R5, Psv) 10-50mm
EN 459-1:2015 Building lime

Definition, specifications, and acceptance criteria

Quality Indicator Name	Typical	Actual
CaO+MgO	≥ 90 %	≥ 92 %
MgO	≤ 5 %	≤ 2 %
CO ₂	≤ 4 %	≤ 3 %
SO ₃	≤ 2 %	≤ 0.5 %
SiO ₂	-	≤ 1 %
Fe ₂ O ₃	-	≤ 0.5 %
Available lime	≥ 80 %	≥ 86 %
Bulk density	-	≤ 0.85 kg/dm ³
Reactivity t ₆₀ °C	≤ 10 min	≤ 4 min
Particle size < 10mm	-	≤ 10 %

The requirements in EN 459-1 are based on the results of the construction lime testing determined according to EN 459-2.

APPLICATION

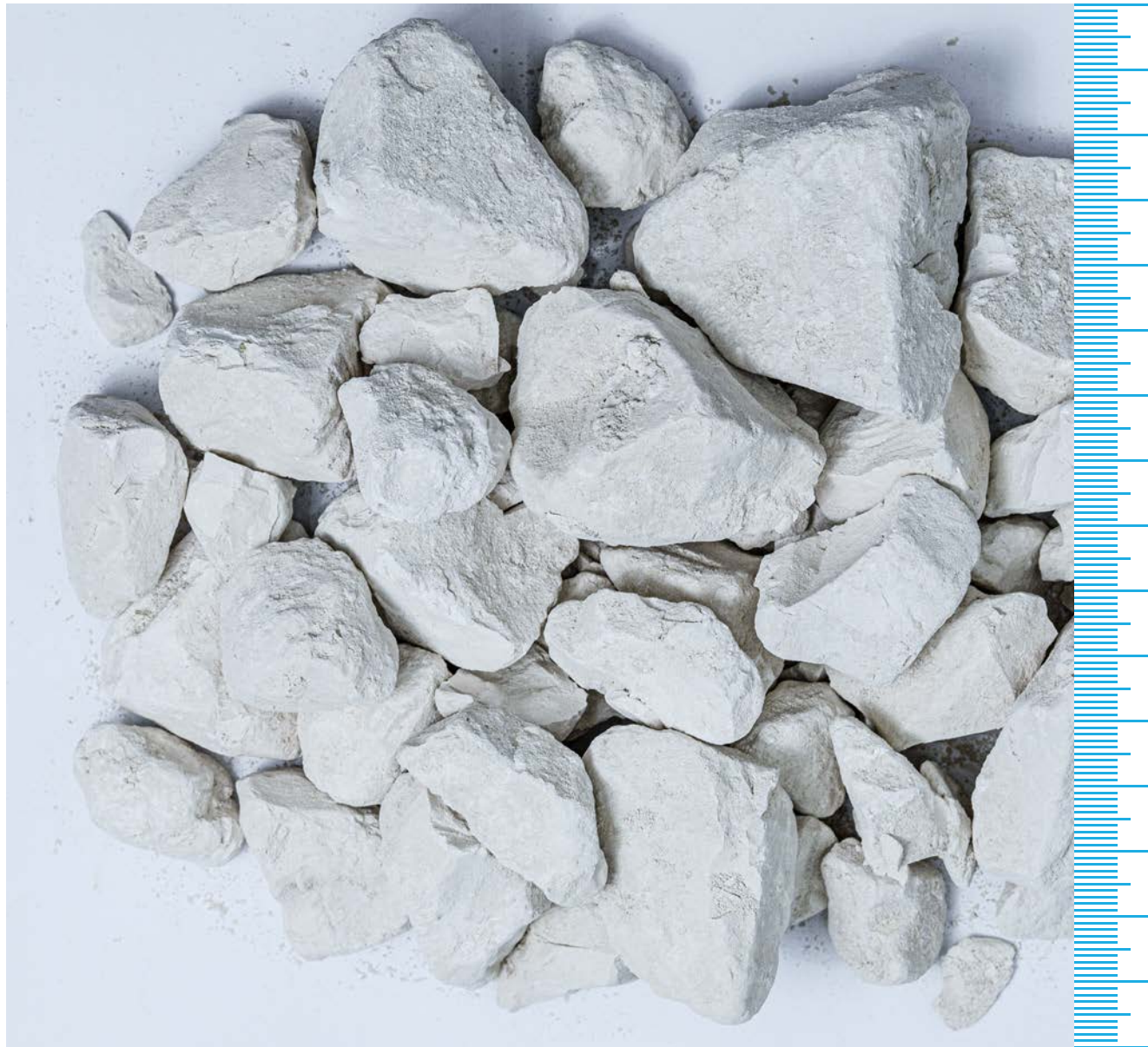
Piecewise burnt lime is a product received by burning the limestone in the pit furnaces. The lumpy quicklime is used in the metal industry, chemical industry, pulp and paper industry, soda industry, and environment protection.

WARRANTY PERIOD

The warranty period of piecewise burnt lime is 30 days from the day of manufacturing on the condition of storage in a damp-proof place.

STANDARD REQUIREMENTS:

Conforms to EN 459-1:2015
Type: CL 90 (R5,Psv)
Testing according to EN 459-2:2010



PRODUCTS

QUICKLIME
FRACTION 30-80 MM

Calcium lime
CL-90-Q (R5, Psv) 30-80mm
EN 459-1:2015 Building lime

Definition, specifications, and acceptance criteria

Quality Indicator Name	Typical	Actual
CaO+MgO	≥ 90 %	≥ 92 %
MgO	≤ 5 %	≤ 2 %
CO ₂	≤ 4 %	≤ 3 %
SO ₃	≤ 2 %	≤ 0,5 %
SiO ₂	-	≤ 1 %
Fe ₂ O ₃	-	≤ 0,5 %
Available lime	≥ 80 %	≥ 85 %
Bulk density	-	≤ 0,85 kg/dm ³
Reactivity t ₆₀ °C	≤ 10 min	≤ 4 min
Particle size > 80mm	-	≤ 10 %
Particle size < 30mm	-	≤ 10 %

The requirements in EN 459-1 are based on the results of the construction lime testing determined according to EN 459-2.

APPLICATION

Piecewise burnt lime is a product received by burning the limestone in the pit furnaces. The lumpy quicklime is used in the metal industry, chemical industry, pulp and paper industry, soda industry, and environment protection.

WARRANTY PERIOD

The warranty period of piecewise burnt lime is 30 days from the day of manufacturing on the condition of storage in a damp-proof place.

STANDARD REQUIREMENTS:

Conforms to EN 459-1:2015
Type: CL 90 (R5,Psv)
Testing according to EN 459-2:2010

PRODUCTS

LIMESTONE
FRACTION 10-20 MM

limestone chemical composition

INDEX	FACT, %
CaO content	≥ 53 %
MgO content	≤ 2 %
SiO ₂ content	≤ 1 %
Fe ₂ O ₃ content	≤ 0,5 %
Al ₂ O ₃ content	≤ 0,5 %
SO ₃ content	≤ 0,5 %
P ₂ O ₅ content	≤ 0,1 %
CO ₂ content	≥ 42 %



PRODUCTS

LIMESTONE
FRACTION 20-40 MM

limestone chemical composition

INDEX	FACT, %
CaO content	≥ 53 %
MgO content	≤ 2 %
SiO ₂ content	≤ 1 %
Fe ₂ O ₃ content	≤ 0,5 %
Al ₂ O ₃ content	≤ 0,5 %
SO ₃ content	≤ 0,5 %
P ₂ O ₅ content	≤ 0,1 %
CO ₂ content	≥ 42 %



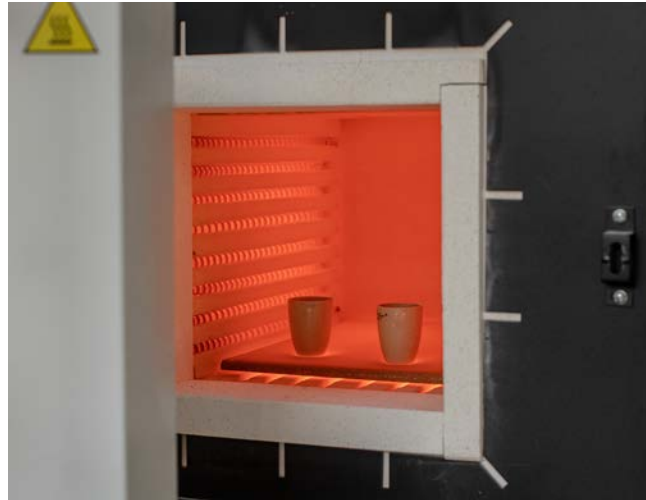
PRODUCTS

**LIMESTONE
FRACTION 40-80 MM**

limestone chemical composition

INDEX	FACT, %
CaO content	≥ 53 %
MgO content	≤ 2 %
SiO ₂ content	≤ 1 %
Fe ₂ O ₃ content	≤ 0,5 %
Al ₂ O ₃ content	≤ 0,5 %
SO ₃ content	≤ 0,5 %
P ₂ O ₅ content	≤ 0,1 %
CO ₂ content	≥ 42 %





MODERN LABORATORY



QUALITY OF EXTRACTED AND MANUFACTURED PRODUCTS IS A PRIORITY OF OUR PRODUCTION

The quality of extracted and manufactured products is a major goal of our production.

The GALVAPNO Group specializing in lime manufacturing possesses an indispensable aspect of quality which is a modern laboratory. After all, in order to produce and deliver high-quality products to our customers, all its parameters and characteristics need to be studied.

The measuring laboratory of the enterprise is equipped with modern machinery manufactured by MATEST (Italy), OHAUS (USA), laboratory heat-treatment equipment by Labexpert (Ukraine), and TermoLab that provide high-quality in the sphere of measurement.

The laboratory provides for the testing of both raw materials and finished product.

The finished product that comes from furnaces is tested regularly every two hours to provide uniform and unchangeable quality.

The laboratory is certified and carries out the testing based on the national quality standards, and according to the European guidelines DIN EN.

Laboratory technicians are constantly studying new methods for determining the quality in the measuring laboratory.



TESTING CARRIED OUT BY THE LABORATORY:

- Determination of the total content of active CaO+MgO
- Determination of the content of hydration water and CO₂
- Determination of the content of unburnt granules
- Determination of the temperature and time of lime burning
- Determination of the content of hydration water in the lump lime
- Determination of the uniformity of the lime volume changing
- Degree of dispersion of pulverized lime
- Determination of chemical composition of lime and limestone
- Determination of granulometric composition Determination of loss on ignition (L.O.I)

SPHERES OF APPLICATION

Calcium is the main component of all living things on our planet. The need for it is almost the same as for air

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PRODUCTION OF THE CONSTRUCTION MATERIALS:

Lime and limestone are used in the following productions: foamed concrete, silicate bricks, building mortar, heat-insulating materials, slag block, dry building mixes, plaster and adhesive cement, masonry mortar, putty, and asphalt.



METAL INDUSTRY:

Lime is used to upgrade and enrich iron and polymetallic ores. Lime lowers the melting point, which helps to save resources. It is used in the production of metal products (wire, rolled products, molded elements etc.)



ENERGY INDUSTRY:

Nuclear power plants use lime to flush and neutralize harmful waste.

Thermal power station - the hazardous flue gases are purified using an absorbent, i.e. slaked lime $\text{Ca}(\text{OH})_2$ in different forms.



CHEMICAL INDUSTRY:

The lime is used in the following industries: paint and varnish, perfume, petrochemical, cable, and electromechanical, pharmaceuticals, rubber engineering; for the production of cosmetics, paper, glass and polymers.



FOOD INDUSTRY:

Burnt lime is used in the production of sugar and alcohol, dairy products, gelatin, bakery, for the storage of fruits and vegetables, etc.



AGRICULTURE:

Lime and limestone neutralize the soil acidity, which harms the agricultural crops. Thanks to lime, the soil is enriched with calcium, which contributes to improving the soil cultivation indexes.



ANIMAL BREEDING:

The farms and household premises are disinfected with lime, and adding lime to the animal's food helps to eliminate the shortage of calcium in their organisms.



THE WASTE DISPOSAL AND TREATMENT OF POTABLE WATER, AND INDUSTRIAL EMISSIONS INTO THE ATMOSPHERE AND WATER BODIES.



EQUIPMENT

The Italian company **QualiCal** is a leading global manufacturer of limestone processing equipment. The company has implemented projects in Europe, Asia, Africa, and North America.



The **SYNTHESIS** technology is the most advanced in the limestone processing market, with the technical ability to precisely control the specified physical and chemical parameters of the products, which can be adjusted depending on the production needs.

It is important that the operation of the enterprise with such technologies does not pose a threat to the environment, soil and water bodies of the settlements adjacent to the plant of the **GALVAPNO** Group of Companies.

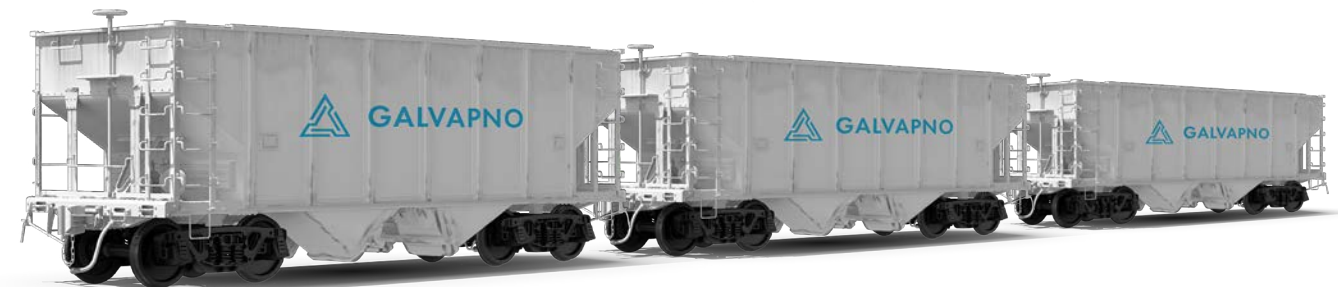
STORAGE FACILITIES

The company has built 3 warehouses with a capacity of 2,900 m³ to store finished products. This is another production advantage that contributes to the uninterrupted production and supply of our products.



WE DELIVER OUR PRODUCT FOR YOUR BUSINESS

We have well-established logistics: finished products are delivered to customers within a predetermined time frame by road and rail



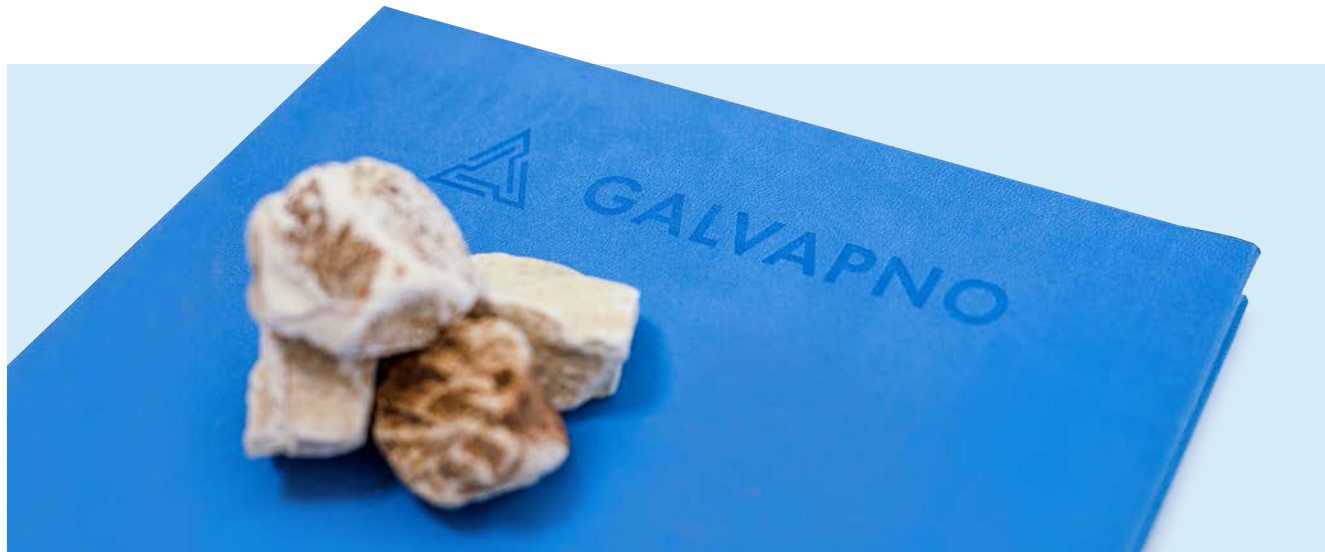
GALVAPNO

MISSION

GALVAPNO Group of Companies is a progressive and stable company that works to create high-quality products that meet all international standards to meet the needs of domestic and foreign customers, in particular, in budget-forming sectors: energy, metallurgy, road construction.

We are a Ukrainian producer of high quality lime and limestone, one of the leaders in the lime market.

We strive to develop towards innovative solutions for our partners, employees and the public, so that everyone feels our support and reliability.



VISION

Rapid growth of the company, fair competition, leading positions in the national and international markets, establishing and expanding partnerships with European businesses.

We strive to win in the market and stimulate the growth of production indicators, taking care of the planet's resources and helping local communities.

Our aspiration lays a solid foundation for the company's further growth and prosperity, which we plan to achieve through our priorities to be better, more mobile and more qualitative.

The company plans to build three more new modernized kilns, set up a new line for the production of building mixtures, produce all fractions of lime and limestone, and expand jobs to 300 people at the renovated production facility.



EMPLOYEES

More than 80 highly qualified employees work at the GALVAPNO Group, including leading specialists in the sphere of mineral extraction.

The Company plans to create additional work-places at its new production facilities.



CONTACTS

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