





*Centuries of
Quality*

Since
1892

COMPANY HISTORY AND EXPERIENCE

Family owned
and operated company

Established in
1892

Experience is mining
more than
130 years

Major supplier
in Europe



SEDLECKÝ KAOLIN
CENTURIES OF QUALITY

MINIMAL CO₂ FOOTPRINT

Min dependence on external energy suppliers
(high energy self-sufficiency)



SCAN QR TO FIND OUT MORE

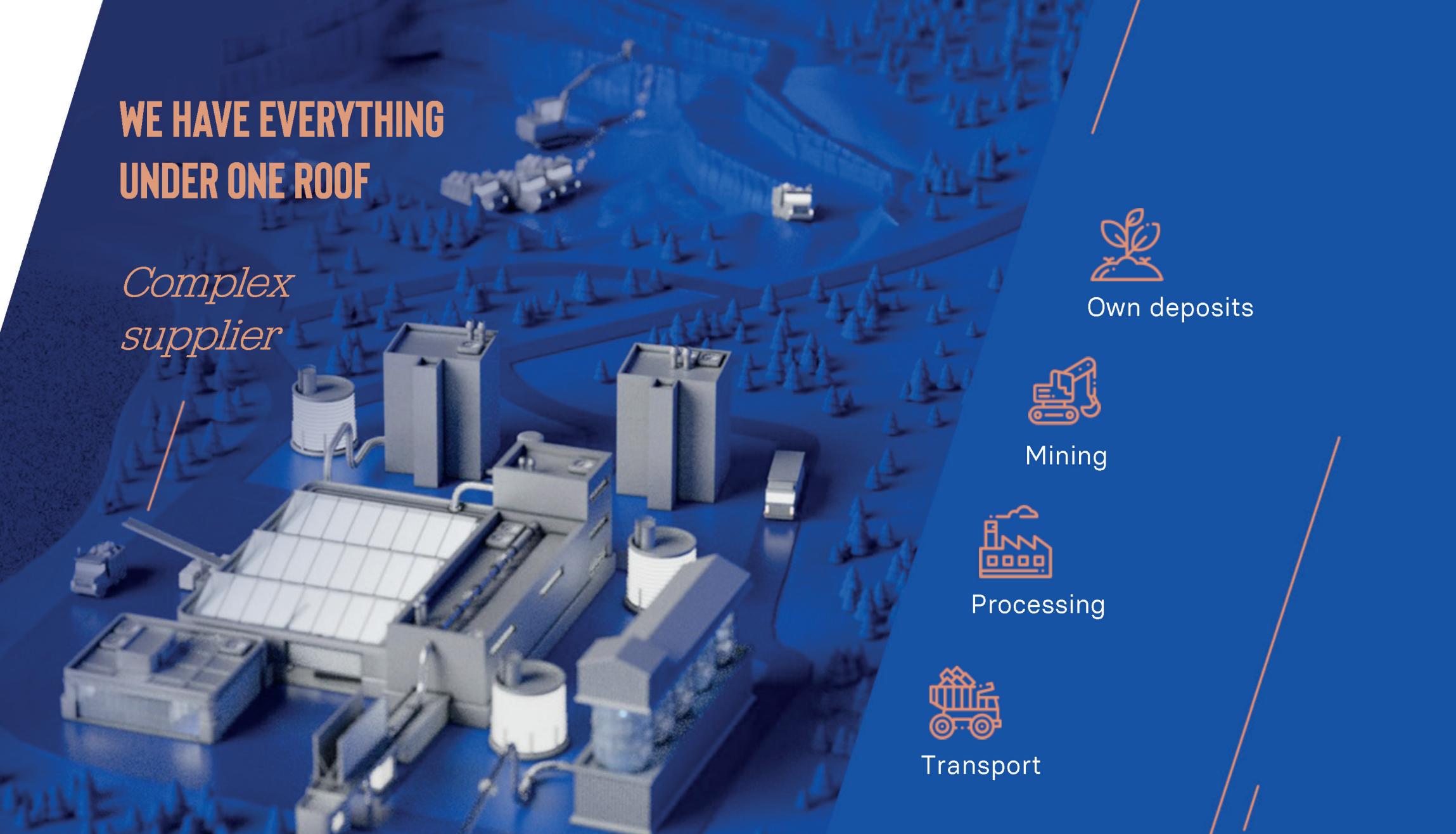
SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

Reclamation of our environment and human resource development is an integral part of our business.



SEDLECKÝ KAOLIN
CENTURIES OF QUALITY





WE HAVE EVERYTHING UNDER ONE ROOF

*Complex
supplier*



Own deposits



Mining



Processing



Transport

WE HAVE A STRONG FOUNDATION



100% Czech
capital, one owner



8 manufacturing
plants



More than 20 kaolin
and bentonite deposits



550 employees



High market share
in kaolin and bentonite



ISO certification 9001:2015
and 14001:2015, BRC certification

WE HAVE PERFECT LOCATION TO SERVE ALL YOUR NEEDS



*We are located in the
heart of Europe,
Karlovy Vary, Czech Republic*

WE ARE SPECIALISTS IN PRODUCTION OF



Kaolin clay



Kaolin mixtures



Zeolite



Calcined clays



Bentonite

USE OF KAOLIN

USE OF KAOLIN

- Tableware
- Glazes,
- Sanitary ceramics
- Technical ceramics
- Electroporcelain
- Casting bodies
- Refractories
- Paper industry
- Chemical industry (f.e. rubber)
- Paints

FINEGROUND KAOLINS

- Powder kaolin with high alumina content for many technical applications incl. refractories
- Coarse-grained filler for chemical industry,
- Filler with increased brightness for chemical industry
- White filler for refractories and chemical industry

FINAL PRODUCTS

- Porcelain
- Sanitary ware
- Ceramic tiles
- Technical ceramics
- Chemical industry
- Paints
- Paper production
- Glazes
- Building materials (stucco/plaster, concrete mixtures)
- Tree sprays against pest

CERAMIC KAOLINS

- Fine grained ceramic kaolin with higher content of kaolinite
- Increased plasticity
- Good raw strength
- Good casting properties
- Suitable also for high-temperature application

KAOLINS FOR USE IN PAPERS AND PAINTS

- Paper kaolin
- High brightness
- lower fraction under 2 µm
- low abrasivity
- Filler with suitable mineralogical and chemical composition

- Cosmetics
- Pencil / Lead
- Chalk
- Medicine

USE OF BENTONITE, CALCINED KAOLINS AND METAKAOLINS

USE OF BENTONITE

- Foundry industry
- Building industry
- Agriculture
- Food Industry
- Drilling
- Catalysts
- Cosmetics
- Sorbents



FINAL PRODUCTS

- Construction sealing
- Building industry
- Drilling mixtures for tunneling
- Moulding mixtures for foundry casting
- Cat litter for cats
- Cosmetics
- Feeding mixtures in agriculture
- Industrial sorbents - waste disposal

CALCINED KAOLINS AND METAKAOLINS

- Refractories
- Lightweight refractories
- Chamotte
- Glazes
- Chemical and construction industry
- Rubber
- Plastics

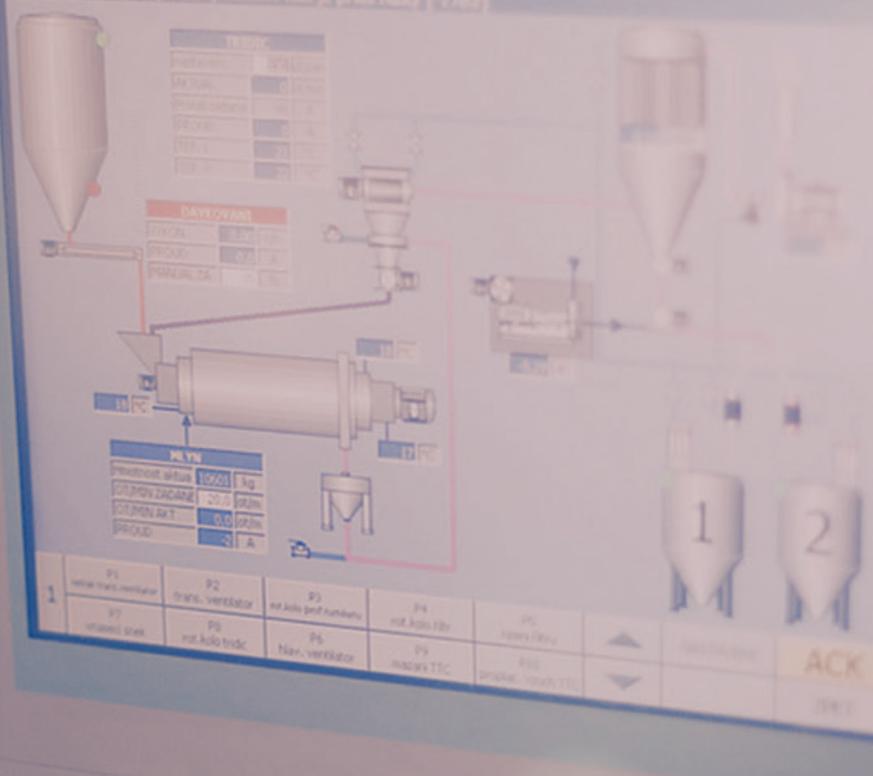


FINAL PRODUCTS

- Glazes
- Firing Tools
- Ceramic rollers
- Refractory materials - bricks
- Filtration ceramics
- Electroisolation
- Chamottes
- Concrete mixtures
- Polymers

HOW WE OPERATE

Sedlecky Kaolin operates with state of the art equipment and sophisticated computer controlled processes





KAOLIN REVIEW

TECHNICAL INFORMATION

CERAMIC KAOLINS WITH INCREASED PLASTICITY

NEW

Custom kaolin

Thanks to a large resource base and an innovated process, we are now able to customize products according to customers requirements and needs.

Zettlitz Ia

Standard finegrained ceramic kaolin with higher content of kaolinite, increased plasticity, good raw strength, good casting properties, suitable also for high-temperature application. Chemical and mineralogical composition is standard (content of kaolinite >90%, Fe_2O_3 ca. 0,9%, TiO_2 ca. 0,2%).

Ceraluh

Kaolin with good plasticity with high content of fine flux (potash feldspar, K_2O = 1,5% or fine muscovite), increased casting rate, good granulometry and zero content of TiO_2 and high content of Al_2O_3 . Application of this kaolin enables to manage advantageous mullite content with low cristobalite content <1%.

NEW

Premier

Kaolin with good plasticity with adjusted granulometry to improve casting properties.

Imperial

Kaolin with good and casting properties for sanitary and technical ceramic.

T79

Kaolin with increased plasticity, suitable for technical ceramics and electroporcelain.

NEW

MK II Cast

Special kaolin for casting bodies.

OT76

Kaolinitic filler for high-temperature application.

SPECIAL PRODUCTS

CALCINED KAOLINS

Kerian HEAT

Refractory kaolin chamotte, high mullite content, zero cristobalite content, water adsorption till 3%, various grain fractions incl. the finest fraction 0-75 µm.

Kerian GLAZE

White kaolinitic filler with high alumina content, cristoballite under ca. 12%, various fractions incl. 0-75 µm.

Kerian ISOL

Dense less hard kaolin chamotte, water adsorption 14-18 %.

KTM

White, porous light-weight kaolin chamotte, resistant to CO-corrosion at high temperature, fulfills the Class A of the corrosion test.
Bulk density in the fraction 1-4 mm = 650-750 kg/m³, mullite content > 62%.

Boltin WHITE

Very reactive metakaolin - finegrained puzzolan and high brightness (R457 over 80%).

Boltin RAPID

Very reactive metakaolin - finegrained puzzolan, brightness approx. 76%.

FINEGROUND KAOLINS

Zettlitz Ia

Universal powder kaolin with high alumina content for many technical applications incl. refractories.

MKM

Coarse-grained filler for chemical industry.

OTM

Filler with increased brightness for chemical industry.

OT76M

White filler for refractories and chemical industry.

All of our standard granular kaolins can be milled to a powder product with appr. 1% moisture.

KAOLINS FOR USE IN PAPERS AND PAINTS

OT84 PAINT

Paper kaolin, high brightness, lower fraction under 2 µm, low abrasivity.

OT82

Fine filler kaolin, brightness min. 81% (R457), very low abrasivity (Einlehrer 5 mg).

OT80

Universal paper kaolin, used also as refractory Ti-kaolin.

OT76

Filler, suitable mineralogical and chemical composition.



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For more information on kaolins and test methods
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or visit www.sedlecky-kaolin.cz

KAOLIN FORM

- ◆ kaolin in lumps - noodles, 10x10-40 mm, moisture <12%
- ◆ broken lumps, 2-10 cm, moisture <18%, bulk weight 950-1050 kg/m³
- ◆ dried and fineground powder, moisture <2%, bulk weight 350-450 kg/m³

DELIVERED PACKAGING

- ◆ valved paper sacks, kaolin in lumps, 25-45 kg
- ◆ repulpable paper sacks, 20-25 kg, loaded on pallets, fixed in PE shrink foil
- ◆ IBC (big bags), 500-1200 kg, one way, with bottom outlet

TESTING METHODS

- ◆ dry modulus of rupture: extruded test samples 8x60mm, slipcast bodies
- ◆ rheology: rotational viscometer, torsion viscometer
- ◆ capillary viscometer, Czech standard, Lehmann
- ◆ usual deflocculation: 0,10 - 0,15% Na₂CO₃
- ◆ casting concentration: % solids in deflocculated slip, viscosity 500 mPas
- ◆ casting rate (mm/min) - deflocculated slip, 55% solids, 10-30 min. in plaster mould
- ◆ mineralogy: chemical analysis + X-ray diffractography + microscopy

The data quoted are based on our test methods and experience. Since the products are refined raw materials that are subject to natural fluctuations, the presented data may vary.
Exact specifications are consulted and agreed with the customer.

