

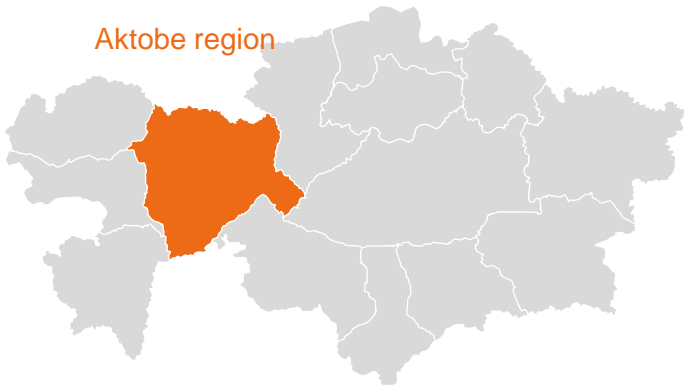


Zhalpak diatomite deposit



Location

Aktobe region



Diatomite

Reserves: **240 million tonnes**

Global market size (2020): **960 million metric tonnes**



The Project

- The Zhalpak diatomite area is located in the Mugalzhar district of the Aktobe region. The nearest settlement is the city and the Emba railway station, located 13 km south-west of the Zhalpak area
- No exploration work was carried out on the Zhalpak area. Predictive assessment of diatomites was carried out in the process of additional geological exploration of an area on a scale of 1:200000
- The unique properties of diatomite, combined with its ecological purity, are very valuable when used in different areas of its application (medicine, chemical and food industry and other areas of use)
- For development, a **26 sq. km** field with predicted resources of **240 million tons** of diatomites is proposed. Mining and technical conditions are very favorable, stripping works with a thickness of 0.5 - 1 meter. The thickness of the diatomite layer in the deposit is 18 - 40 meters

Chemical composition of diatomites of the Zhalpak deposit (Content of oxides, %)

Diatomite objects	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	SO ₃	TiO ₂	P ₂ O ₅	Na ₂ O	K ₂ O
Zhalpak area (2011, 150 kg)	70,0	9,2	2,17	n.d.	2,35	n.d.	0,41	n.d.	n.d.	n.d.
Sample (2015)	67,34	15,51	2,9	0,79	2,22	0,48	0,69	0,16	1,43	1,52



The Market

- The diatomite market is poised to grow by 931.47 thousand Mtonnes during 2021-2025, progressing at a CAGR of about 5% during the forecast period
- The global diatomite market is being driven by the rising production of diatomite in the United States. The United States diatomite production attained a volume of 960 thousand metric tons in 2020, witnessing a 2.5% increase as compared to the previous year
- The market for diatomite is driven by the rising demand from the end-user industries like crop protection chemicals, water treatment, and absorbent, among others. The market is further being aided by the huge demand for the product from filtration mediums in the recent years. In addition, the product is used for industrial applications for the transportation of nitroglycerin



Investment Opportunity

- The Company is looking for a potential financial and/or strategic partner. Share size and amount of investment is subject to negotiation