

Focus on the result. Mirrico — chemistry of your business

MIRRICO Group of Companies

2019



Philosophy

Mirrico Group of Companies specializes in development, manufacture, supply and service maintenance of chemical solutions.

Mission

To improve efficiency of our partners (customers and suppliers) by developing and applying innovative technologies, experience and knowledge, and thereby, to contribute to sustainable development of economy, society and the environment.

Vision

To become a leading company in the sphere of development, supply and service maintenance of chemical solutions in EurAsEC countries and in the Middle East.



History of Mirrico Group of Companies





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Key facts about Mirrico Group of Companies





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Indicator	2010	2011	2012	2013	2014	2015	2016	2017	2018 (plan)
Revenue of Mirrico Group of Companies, mln. \$	69,16	95,27	106,5	119,3	113,6	76,6	95,2	99,4	102,4
EBITDA, mln. \$	9,8	6,8	6,4	9,4	5,2	6,5	17,8	14,2	13,2

Competitive position of Mirrico Group of Companies

- Better competences and developed research base in chemical solutions
- Company's own manufacture of chemical agents in accordance with unique technologies
- The largest share of high-technology solutions in the portfolio among other Russian companies
- Wide range of products and technologies to solve each particular task including standard, hightechnology, and also individual solutions
- High operating efficiency
- Experience in working far abroad and at the great amount of different facilities
- Broad coverage of markets and operating fields



What makes Mirrico GC a top company







Areas of business of Mirrico Group of Companies



Oil prospecting and recovery:

- Well construction:
- Chemistry and service of drilling fluids;
- Service connected with lost-circulation control during drilling;
- Rental of equipment for drilling fluids cleaning;
- Chemical agents for well casing
- Work with subsurface storage tanks:
- Investigations of oil fields with the help of indicators;
- Chemical agents and service for enhanced oil recovery
- Work with ground infrastructure:
- Chemical agents and service for protection of pumps, pipelines and for oil treatment;
- Cleaning of tanks and processing equipment;

Pipeline transportation of hydrocarbons:



• Chemical agents and service for pipeline transportation of oil and oil products



Oil and gas processing:

- Chemical agents and additives for oil recovery and petroleum chemistry
- Water treatment in oil processing and petroleum chemistry



Ferrous and non-ferrous metallurgy:

• Water treatment in metallurgy



Beneficiation of coal, ore and minerals:

Chemical agents for flotation, water treatment and sludge decantation



Chemical and petrochemical industry:

- Struggle against undesired secondary processes
- Water treatment at the enterprises of petrochemical industry





Innovations in Mirrico Group of Companies





Innovative business priorities

Area of business	Business priorities for development					
Well drilling	Loss circulation control					
wen urming	Complication control upon drilling					
	Enhanced oil recovery					
Oil production	Production stimulation, incl. hard-to-recover reserves					
	Formation fracturing					
Complication control	Protection of surface and downhole equipment against corrosion, asphalt, resin and paraffin deposits and salts					
	Increase of quality of oil treatment					
	Reduction of energy costs associated with pumping					
Pipeline transportation of hydrocarbons	Increase in volume					
	Provision of safe operation					
Complex chemization of denosite	Full service maintenance of oil production processes					
Complex chemization of deposits	Increase of oil extraction efficiency					
	Water treatment					
Industrial water supply	Produced water conditioning					
Industrial water supply	Circulating water treatment					
	Water management					
	Oil product additives (diesel fuel, vacuum gas oil, oil fuel)					
Oil and gas processing	Catalytic processes					
Petroleum chemistry	Struggle against negative secondary processes					
Small-tonnage chemistry	Polymer production					



Unique products and technologies of Mirrico Group of Companies





Production of Chemical Agents by Mirrico Group of Companies

Company's own production is **30 thousand tons per year**

Production at partners' facilities is 20 thousand tons per year

Company's own production:

- OPU-30 LLC, a chemical process plant of Mirrico Group of Companies, is situated near Almetyevsk, Republic of Tatarstan.
- Total production space makes 7,8 ha.
- Number of employees exceeds 80 people.
- Quality management system of the company complies with ISO 9001:2008 international standard.
- The plant produces a full range of:
 - petrochemicals,
 - chemical agents for water treatment,
 - chemical agents for oil processing, petroleum chemistry, turbulent viscosity reducing additives, chemical agents for well drilling, enhanced oil recovery and oil production stimulation.

Advanced projects on production:

- Construction of a plant producing turbulent viscosity reducing additives according to its own technology;
- Construction of facilities for production of polymer corrosion inhibitors;
- Setting of facilities for production of a depressant for oil processing.





Business unit Chemicals for Drilling and Production

Development, customized selection and supply of a wide range of complex chemicals with high engineering component for well construction and oil production.

Main types of services:

- Trading: selection and supply of our proprietary chemicals, as well as chemicals of third-party vendors for drilling, cementing and oil production customized for the client's specific geotechnical issues and with consideration of specific drilling conditions in Russia and the CIS countries;
- Engineering: design and testing of drilling mud systems, engineering support of the developed chemical solution implementation by qualified process engineers during the well drilling operations.

Advantages of cooperating with the Mirrico Group's CDP BU:

- 80 kinds of supplied chemicals (20 of them are manufactured by our company);
- 1/3 of products supplied by the Mirrico Group (in terms of value) is produced on our own production facilities;
- 16 years on the market;
- Optimal value-for-money ratio of the supplied products;
- Competent technological support service;
- Equipped quality control lab.







Business unit Water Treatment Services

Chemical solutions and services in the field of water quality assurance for enterprises of ferrous and non-ferrous industries, pipe production, chemical, ore dressing industries, oil and gas refineries, agricultural and utilities sectors.

Main types of services:

- Supply of chemicals and rendering dosing services for water treatment systems, circulating water supply systems and waste water treatment;
- Supply of photochemicals, flocculants and coagulators for flotation, thickening and dewatering of mineral raw materials;
- Development of chemical treatment programs for boiler feed and cooling water.

Advantages of cooperating with the Mirrico Group's WTS BU:

- footprint in 10 industries;
- 4 areas of service for the client's water infrastructure;
- more than 30 cities in 4 countries;
- 12,000,000 m³ of treated water and purified effluent per year;
- Qualified technological support service.





Business unit Oil and Gas Processing and Petrochemistry

Design and implementation of advanced technologies and chemical solutions to ensure technological and economic efficiency of oil and gas refining processes, as well as petrochemical processes.

Main types of services:

- Supplying chemicals in order to improve the quality of light and heavy petroleum products, as well as to ensure continuous and failure-free functioning of the main technological processes of oil and gas processing and petrochemistry;
- Selection, implementation, supply, and regular monitoring of the chemicals efficiency for primary and secondary oil refining processes.

Advantages of cooperating with the Mirrico Group's OGP & PC BU: I

- Domestic production;
- Full range of chemicals to ensure smooth operation of petrochemical enterprises producing monomers;
- High level of service support.



Production Division

Chemical and process solutions for oil and gas production.

Main types of services:

- Production of chemicals. OPU-30 LLC is a plant owned by Mirrico, located 14 km away from Almetyevsk (Republic of Tatarstan).
- Chemical solutions: supply of chemicals, management of chemical solutions, integrated field service support.
- Process solutions: MARTin is a mobile autonomous robotic unit for cleaning tanks and oilfield equipment.

Advantages of cooperating with the Mirrico Group's Production Division:

- Extensive portfolio of high efficiency chemical solutions.
- Integrated chemical service: supply, service, monitoring, responsibility for the result.
- In-house R&D center and a network of regional laboratories.
- Experience of collaboration with the largest oil and gas production companies in Russia and abroad.
- Proprietary production of chemicals, providing consistent quality and optimal pricing of the applied products.







Business unit Downhole Chemical Treatment (DCT BU)

Development of technological solutions for oil recovery enhancement, oil production stimulation and squeeze cementing.

Main types of services:

- Consulting, development, laboratory selection and customization of enhanced oil recovery and oil production stimulation technologies.
- Mixing and injection of chemical compounds using proprietary specialized equipment.
- Monitoring of results of the works performed.

Advantages of cooperating with the Mirrico Group's DCT BU:

- Extensive portfolio of physical and chemical technologies for enhanced oil recovery and oil production stimulation.
- Qualified personnel.
- In-house chemical analysis laboratory.
- Extensive portfolio of chemicals used in oilfield operations sector that are produced by the Mirrico Group and its partners.





Business unit Drilling Fluids and Technologies (DFT BU)

Service support for all types of drilling fluids.

Main types of services:

- Preparation of drilling mud programs for specific geologic conditions.
- Engineering support of the drilling mud mixing and treatment processes.
- Combating complications (disastrous circulation loss, consolidation).
- · Casing leaks remedial solutions, well killing.
- · Engineering support of drilling mud cleaning systems.
- Drilling mud and oil sludge disposal and reconditioning.

Advantages of cooperating with the Mirrico Group's DFT BU:

- Availability of unique technologies for prevention of disastrous circulation loss QUICK-STONE, CAVE-BLOCK.
- Drilling fluids product line for resolving all types of problems during drilling operations.
- Proprietary chemical production facility.
- The Mirrico Group's work experience in the main Russian drilling regions is 12 years.
- Experienced personnel: more than 80 drilling mud engineers, more than 30 operators for cleaning systems.





Thank you for your attention!

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