NEOCHROM
ANALYTICAL TECHNOLOGIES

NEOCHROM ASIA

Chromatographs and solutions for laboratories

NEOCHROM licensor certificate: ISO 9001:2015 SIC.MS.008. ISO9001.1814

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NEOCHROM
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Welcome to Neochrom!

Neochrom Asia LLP is a Kazakhstan manufacturer of NEOCHROM analytical equipment, operating under licence from the international NEOCHROM trademark. We manufacture chromatographs (including models with mass spectrometric detectors) and other analytical equipment for laboratory and industrial applications.

MISSION

- Manufacture products and provide services that create added value for customers through their features, quality, ease of use and fair pricing.
- Develop, sell and service quality equipment for different market segments. Create products with competitive technical and operating performance.
- Take an individual approach to every customer: develop, manufacture, implement and support NEOCHROM analytical equipment for specific objectives and tasks.
- Offer a broad range of NEOCHROM laboratory equipment for customers with different budgets.
- Build a professional dealer network whose members work together to solve customers' problems.
- Provide employees with stable employment, fair pay, interesting work, professional development and good working conditions.
- Our work is founded on a precise understanding of customers' needs and quality solutions to their tasks.

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ABOUT THE MANUFACTURER

Neochrom Asia LLP manufactures high-precision analytical instruments for physicochemical analysis in Kazakhstan under licence from NEOCHROM. NEOCHROM equipment is used for research and routine analysis in petrochemistry, natural gas production and processing, agrochemistry, biochemistry, the food industry, biology, medicine, environmental science, forensic science, pharmaceuticals and other fields.

The licensor, NEOCHROM, has more than twenty years of development and manufacturing experience and produces gas chromatography equipment in Ukraine.

Neochrom Asia builds on this accumulated expertise. NEOCHROM solutions are already operating successfully in laboratories, industrial enterprises and research institutions in Ukraine and other countries.

NEOCHROM online gas chromatography and spectral monitoring systems are used at enterprises in Ukraine and the CIS. Neochrom Asia LLP arranges delivery, installation, staff training and equipment servicing in Kazakhstan. We manufacture equipment under NEOCHROM licence to meet customer requirements, select instrument configurations and help solve laboratory analytical tasks. For manufacture, configuration, supply and servicing in Kazakhstan, contact Neochrom Asia LLP.

COMPETITIVE ADVANTAGES

- Quality equipment at a reasonable price.
- Seven-year warranty subject to annual maintenance and metrological verification.
- Manufacturer in Kazakhstan: Neochrom Asia LLP, Pavlodar, under NEOCHROM licence.
- Manufacture and supply of equipment for Kazakhstan laboratories.
- Intuitive software with free updates.
- NEOCHROM licensor's production is certified to ISO 9001:2015 and ISO 14001:2015.
- Every NEOCHROM instrument undergoes verification or calibration using the appropriate procedure, according to customer requirements.
- All NEOCHROM instruments are new and manufactured in the current year.
- Customer staff training and practical work in a laboratory certified to ISO/IEC 17025:2017.

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GENERAL INSTRUMENT OVERVIEW

The NEOCHROM gas chromatograph has a single housing containing the main functional units, controls and visual indicators, detection system, and temperature and gas flow control systems.

NEOCHROM gas chromatographs support the following detectors:
- Mass selective
- Flame ionisation
- Flame photometric
- Thermal conductivity
- Thermionic
- Electron capture
- Photoionisation
- Helium ionisation
- Chemiluminescence

Available options:
- Autosampler
- Automatic gas sampling valves
- Manual gas sampling valves
- Pyrolyser
- Thermal desorber

Data interfaces:
- USB
- ETHERNET (optional)

Data processing software:
- CDS NEOCHROM NG

NEOCHROM gas chromatographs are supplied with capillary columns from leading manufacturers and in-house packed columns based on high-quality polymeric and inorganic sorbents.

Before shipment, every column is validated for the customer's analytical applications.

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ANALYTICAL INSTRUMENT RANGE CHROMATOGRAPHS

Across the NEOCHROM chromatograph range, the same electronic components determine analytical sensitivity, except in specialised configurations. This provides comparable sensitivity across models at different price points.

Higher-priced models include additional modules that simplify operation, expand chromatographic data analysis and storage, and enable instruments to be networked.



NEOCHROM Class A — simple, reliable and affordable.

Manually controlled gas flow regulators. All injector and detector types are available except mass spectrometric detectors. USB interface. The main advantage is the lowest price. As with other manually controlled instruments, retention time reproducibility is lower than in models with automatic control. This class also includes upgraded chromatographs from other manufacturers.



NEOCHROM Class B — electronic carrier gas flow control.

Full detector range. Sample introduction options include an autosampler, manual or automatic gas sampling valve, pyrolyser and more. USB and ETHERNET (optional) interfaces. High retention time reproducibility.

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ANALYTICAL INSTRUMENT RANGE
CHROMATOGRAPHS

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NEOCHROM Class C — for professional analytical applications.

Built-in computer for standalone operation or connection to an external PC. Instrument networking, GSM modem and GPS connection. USB, COM and ETHERNET interfaces. For industrial laboratories where reducing human error and independent analysis logging, including recording chromatograms on the instrument, are important.



NEOCHROM Class SX — custom-built systems.

Analytical systems tailored to customer tasks, including online monitoring of gases, petroleum products, polymer pyrolysis products and other multicomponent mixtures. Optional mass selective, helium ionisation and other detectors.

UPGRADES

Expand your chromatograph's capabilities. Our solution: https://neochrom.asia/ru/posluhy/modernizaciya.html
Modern electronics in your chromatograph's refurbished housing. Regardless of its original brand, the instrument undergoes assessment and metrological verification against the CLASS A series technical specifications. The image shows a CHROM 5 after upgrading. Warranty on upgraded equipment: 1 to 3 years.



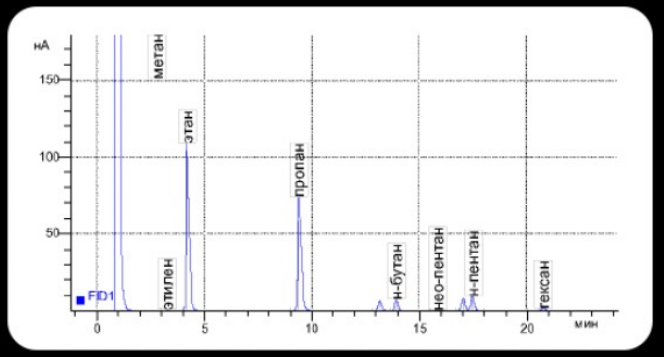
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READY-MADE SOLUTIONS FOR ANALYTICAL APPLICATIONS

NEOCHROM gas chromatographs address analytical tasks in industry, energy, metallurgy, agriculture, science, medicine and other fields.

Transformer oil analysis

- Dissolved gases in insulating transformer oil: SOU-N EE 46.302:2006, ASTM D3612.
- Ionol antioxidant additive content in insulating transformer oil: SOU-N EE 46.501:2006.



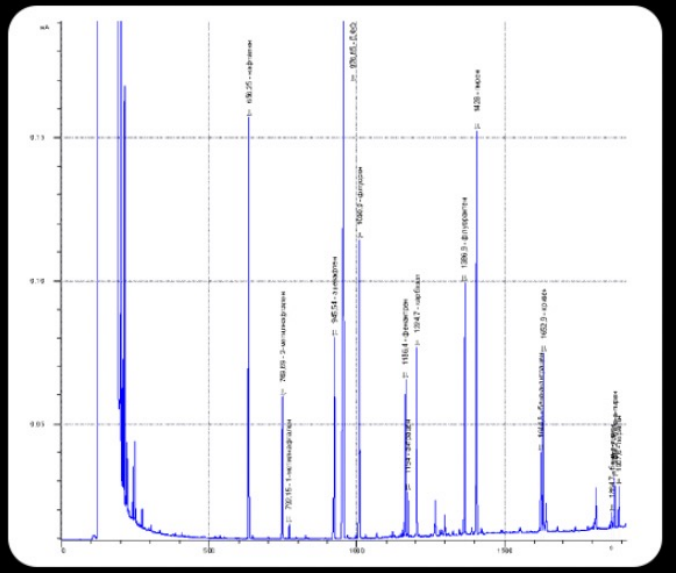
*Applies to this and subsequent chromatograms.

Natural gas analysis

- Natural gas composition: ISO 6974:2007.
- Natural gas physicochemical properties: ISO 6976:2009.

Benzo(a)pyrene and other PAHs in the environment and food

- Polycyclic aromatic hydrocarbons in ambient air: ISO 12884:2000.
- Benzo(a)pyrene in ambient and workplace air: MUK 4.1.1273-03.



*Chromatograms were obtained using NEOCHROM gas chromatography equipment and reflect actual results with known limitations. The company accepts no liability for direct or indirect losses arising from the use of these materials in your practice.

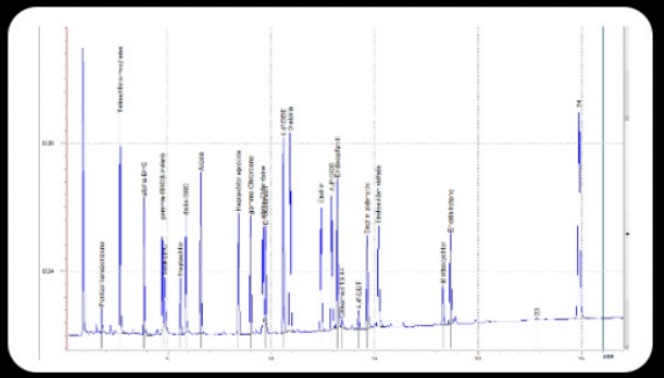
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READY-MADE SOLUTIONS FOR ANALYTICAL APPLICATIONS

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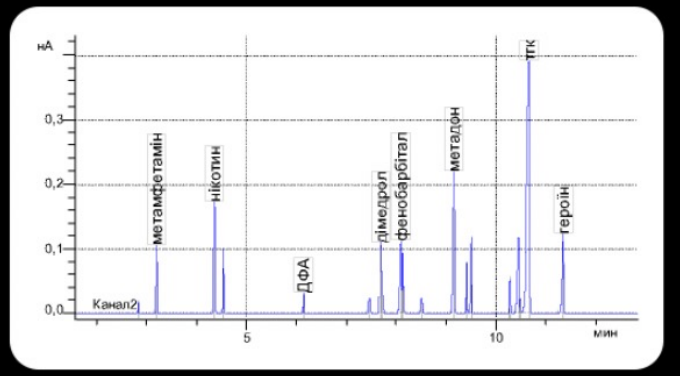
Food and raw material testing

- Pesticides
- Mycotoxins
- Nitrosamines
- Hormones



Testing narcotic drugs, psychotropic substances, precursors, potent and toxic substances

- Qualitative gas chromatographic analysis
- Quantitative analysis
- Identification (comparative analysis) to establish a common source



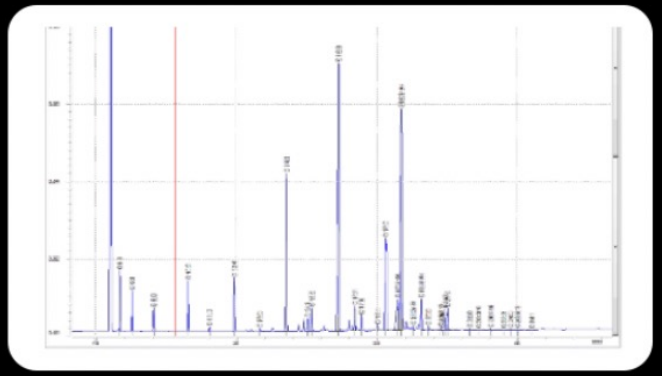
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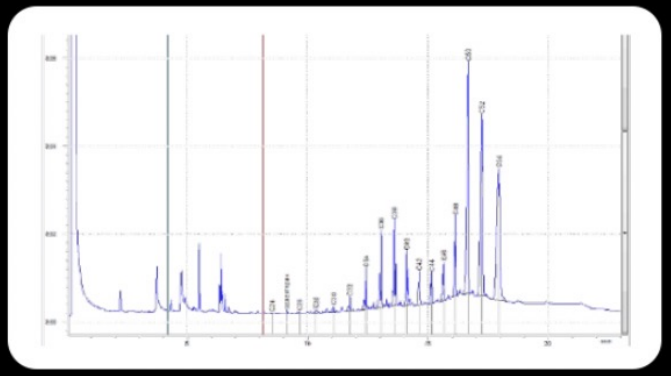
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Quality assessment of oils and fats

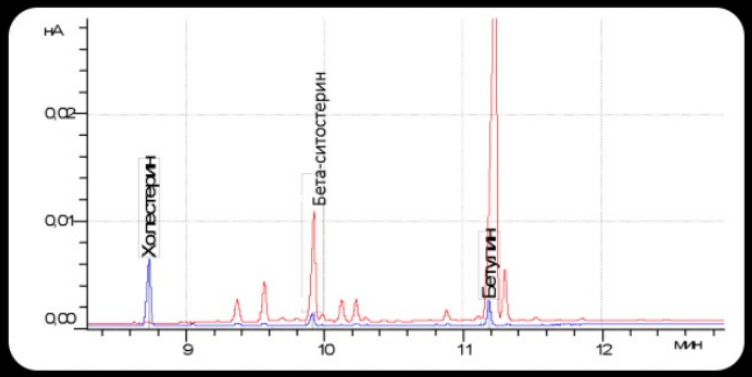
- Fatty acid composition of dairy products in accordance with ISO 15885.
- Determination of trans fatty acid isomers.

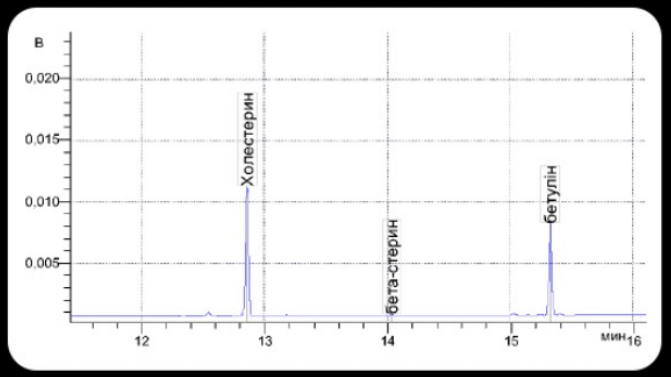


- Milk fat purity by gas chromatography of triglycerides: ISO 17678.



- Detection of vegetable fat by gas chromatography of sterols: ISO 3594.





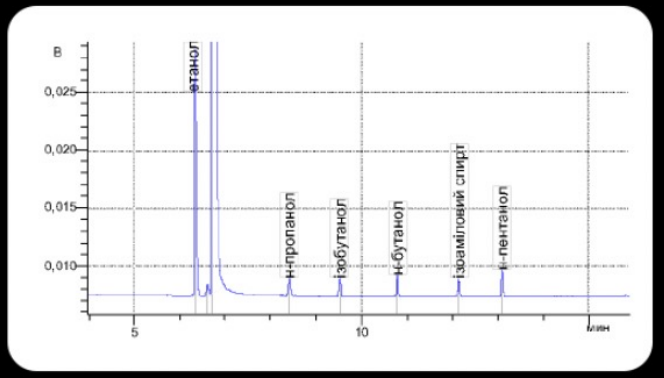
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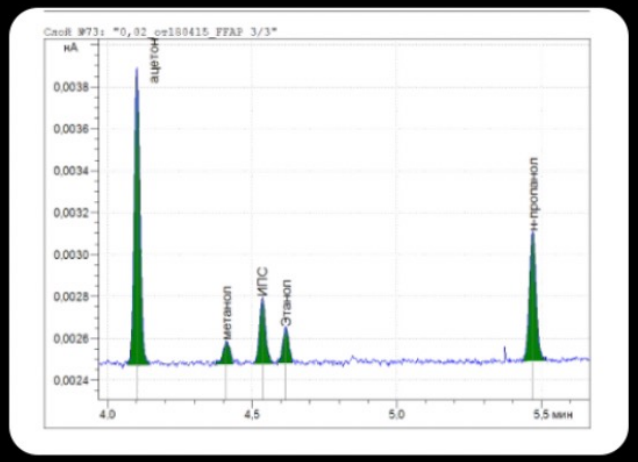
Quality testing of alcohol-containing liquids

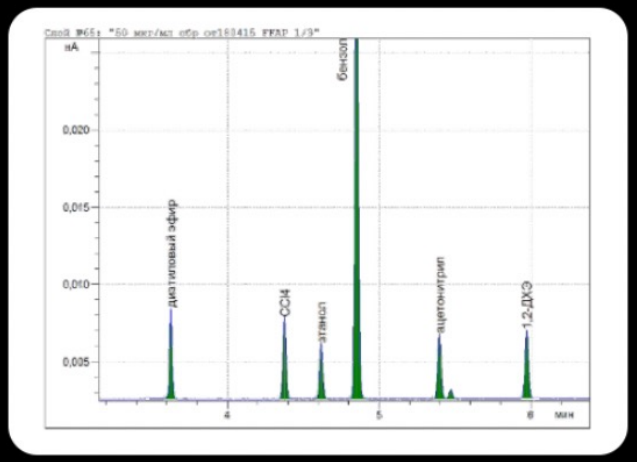
- Food-grade and medical alcohol quality: toxic trace impurities, fusel oils, acids, etc.
- Alcoholic beverages: compliance with DSTU and GOST standards; authenticity testing.
- Cognac: age markers for authenticity assessment.
- Bioethanol as a motor fuel additive.
- Industrial alcohols: denaturing components and composition compliance.



Aliphatic alcohols and other volatile components in biological samples

- Ethanol determination
- Detection of C1-C5 aliphatic alcohols
- Determination of volatile toxic components in biological samples





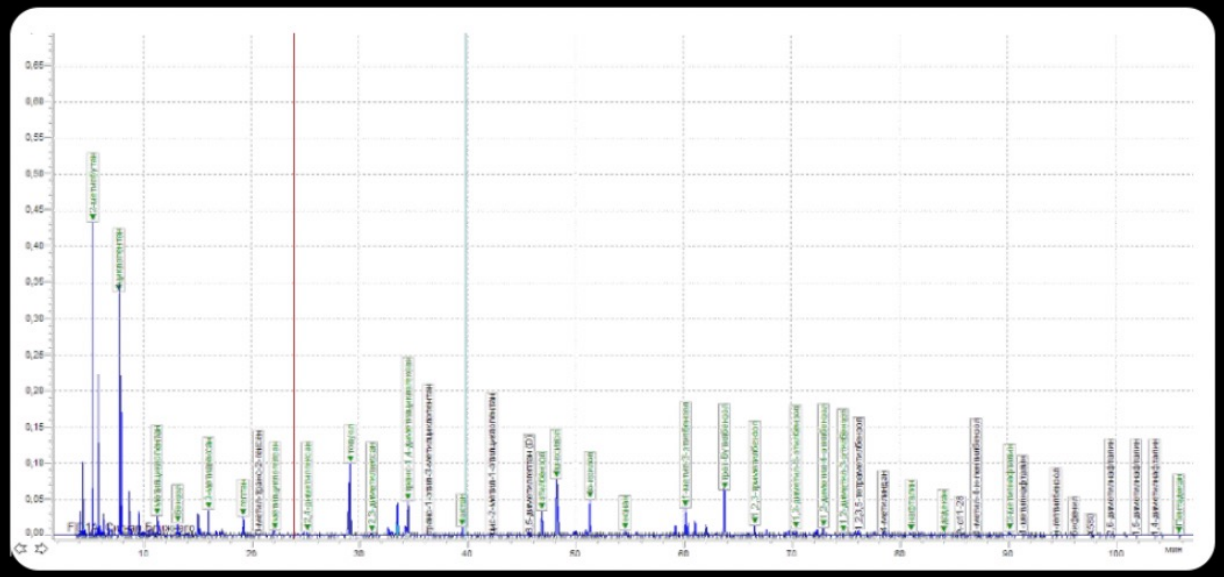
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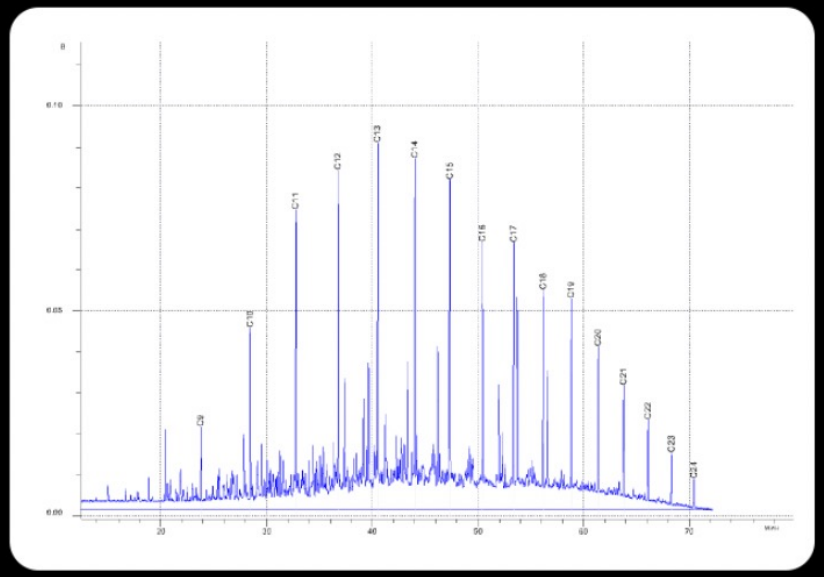
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Quality testing of fuels and other petroleum products

- Petrol quality
- Biodiesel quality
- Diesel fuel quality
- Mineral, semi-synthetic and synthetic oil quality
- Impurity analysis





Water in bioethanol and other organic solvents

Bioethanol can increase water content in petrol blends, raising the risk of corrosion and microbial growth. Ethanol producers need to minimise moisture in their product. GC with a thermal conductivity detector can determine water in alcohol from 0.03%.
A helium ionisation detector can determine water at the 1 ppm level.

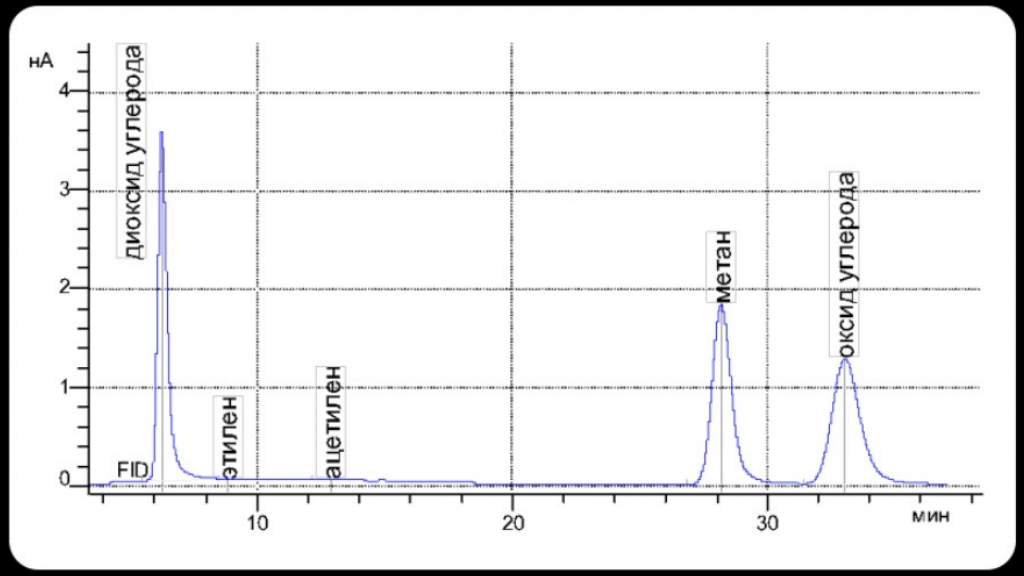
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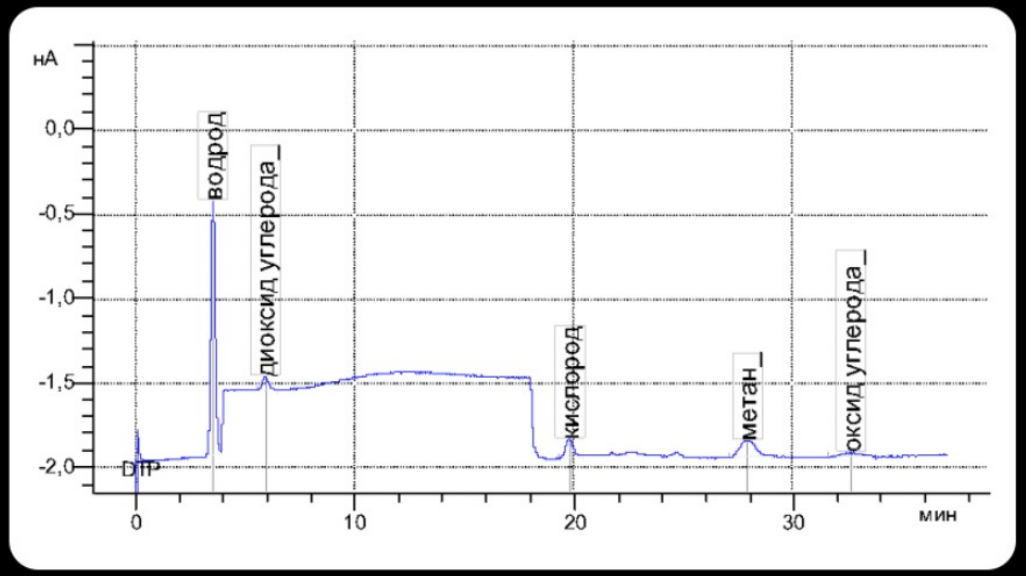
READY-MADE SOLUTIONS FOR ANALYTICAL APPLICATIONS

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Analysis of complex gas mixtures in mine atmospheres

NEOCHROM gas chromatography systems analyse mine atmospheres. The ratios of detected components are used to diagnose and predict endogenous fires.





Our qualified staff and technical facilities enable us to develop solutions based on the methods, regulatory documents and recommendations specified by the customer.

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MANUFACTURE OF HIGH-PURITY GAS GENERATORS

NEOCHROM ANALYTICAL TECHNOLOGIES

HMG hydrogen generators

Features and benefits

- SPE (solid polymer electrolyte) technology.
- Direct electrolysis of pure water without alkali.
- High-quality ion-exchange membrane.
- Low-sulphur O-ring helps maintain gas purity.
- Gas purity ensures a stable baseline with FID, thermionic and MS detectors.
- Built-in gas pressure and flow monitoring.
- Automatic water level monitoring and shutdown if water is insufficient.
- Electrolyser protection extends service life.
- Compatible with gas chromatographs from different manufacturers.
- Connections and communication outputs are adapted to NEOCHROM GC systems by default.



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MANUFACTURE OF HIGH-PURITY GAS GENERATORS

NEOCHROM ANALYTICAL TECHNOLOGIES

HMG hydrogen generators

Technical parameter	HMG-300*	HMG-500**	HMG-1000***
Hydrogen purity	99.999%	99.999%	99.999%
Outlet flow	300 mL/min	500 mL/min	1000 mL/min
Outlet pressure	0-0.4 MPa	0-0.4 MPa	0-0.4 MPa
Pressure compensation	0.01 MPa	0.01 MPa	0.01 MPa
Power	150 W	250 W	250 W
Dimensions, weight	360×300×140 mm, 14 kg	400×360×220 mm, 14 kg	400×360×220 mm, 14 kg

* Recommended for ionisation detectors, or simultaneously for carrier gas supply with a capillary column shorter than 50 m, if the method's sample split ratio does not exceed 100.

** Recommended for ionisation detectors, or simultaneously for carrier gas supply with a capillary column shorter than 50 m, if the method's sample split ratio does not exceed 250-300.

*** Recommended for operation at high gas flow rates.

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MANUFACTURE OF HIGH-PURITY GAS GENERATORS

NEOCHROM ANALYTICAL TECHNOLOGIES

NEOCHROM NG series nitrogen generators

Features and benefits

• Automatic pressure and flow display; constant pressure and current. Nitrogen flow is automatically adjusted to consumption.

• Membrane separation in the electrolytic cell. A PCAN support and precious-metal catalyst in the catalytic layer ensure cell efficiency, high output and nitrogen purity.

• Before shipment, the electrolytic cell undergoes more than 100 hours of ageing tests at high voltage and current to ensure stable operation.

• Low nitrogen moisture: membrane separation with high molecular permeability and a metal-polymer drying unit reduce the initial moisture content.

• Two adsorption systems further lower the dew point and improve nitrogen purity. A trace oxygen removal agent requires no activation.

• Easy operation: no need to transport or maintain purification cylinders. Simply switch on the generator to produce nitrogen. Continuous or intermittent operation with a stable nitrogen supply and no reduction in flow.

• Safety and reliability: a sensitive automatic protective device prevents alkali carryover.

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MANUFACTURE OF HIGH-PURITY GAS GENERATORS

NEOCHROM ANALYTICAL TECHNOLOGIES

NEOCHROM NG series nitrogen generators

Parameter	NG-300*	NG-500**	NG-1000***
Nitrogen purity	Oxygen <3 ppm	Oxygen <3 ppm	99.999%
Outlet flow	0-500 mL/min	0-500 mL/min	0-1000 mL/min
Outlet pressure	0-0.4 MPa	0-0.4 MPa	0-0.4 MPa
Pressure fluctuation	<0.003 MPa	<0.003 MPa	<0.003 MPa
Power supply	220 V ±10%, 110 V ±10%	220 V ±10%, 110 V ±10%	220 V ±10%, 110 V ±10%
Power consumption	60 W	100 W	150 W
Operating environment	Temperature 0-45 °C, relative humidity 85%	Temperature 0-45 °C, relative humidity 85%	Temperature 0-45 °C, relative humidity 85%
Dimensions, weight	370×180×330 mm, 11 kg	370×180×330 mm, 11 kg	370×180×330 mm, 20 kg

* Recommended for ionisation detectors, or simultaneously for carrier gas supply with a capillary column shorter than 50 m, if the method's sample split ratio does not exceed 100.

** Recommended for ionisation detectors, or simultaneously for carrier gas supply with a capillary column shorter than 50 m, if the method's sample split ratio does not exceed 250-300.

*** Recommended for operation at high gas flow rates.

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ABOUT THE LABORATORY



SYSTEM OF INTERNATIONAL CERTIFICATION

SYSTEM OF INTERNATIONAL CERTIFICATION

СЕРТИФІКАТ

на систему менеджменту якості
Сертифікат №: SIC.MS.008.ISO9001.4221

Орган сертифікації «Бюро Міжнародної Сертифікації»
цим сертифікатом підтверджує, що система менеджменту якості

CHROM NEOR&D

«НЕОХРОМ»

ТОВАРИСТВО З ОБМЕЖЕНОЮ ВІДПОВІДАЛЬНІСТЮ
69006, Україна, м. Запоріжжя, вул. Північне Шосе, 30
Код ЄДРПОУ: 40108117

стосовно:

- виробництва інструментів і обладнання для вимірювання, дослідження та навігації;
- ремонту і технічного обслуговування інших машин і устаткування;
- виробництва хроматографів, спектрофотометрів, спектрометрів інфрачервоної області поглинання з Фур'є перетворенням, мас-спектрометрів з індуктивно-зв'язаною плазмою та оптико-емісійних спектрометрів;
- розробки аналітичного устаткування під замовлення;
- розробки контрольно-вимірювальних приладів і автоматики (КВПіА);
- модернізації аналітичного устаткування;
- розробки та впровадження методів лабораторних досліджень в області хімічної промисловості;
- очистки, виробництва хімічних розчинників та реактивів, стандартних зразків

відповідає вимогам міжнародного стандарту

ISO 9001:2015

«Системи менеджменту якості. Вимоги»

(ДСТУ ISO 9001:2015 «Системи управління якістю. Вимоги» (ISO 9001:2015, IDT);
(ДСТУ EN ISO 9001:2018 «Системи управління якістю. Вимоги»
(EN ISO 9001:2015, IDT; ISO 9001:2015, IDT)

Дата видачі сертифікату	:	25.10.2024
Цикл сертифікації	:	3 роки (до 24.10.2027)
Термін дії сертифікату*	:	24.10.2025
Дата наступного підтвердження	:	25.09.2025

** Сертифікат підлягає перевидачі на новий термін за результатами щорічного підтвердження*

Керівник органу Є. Колєсніков

GAS

ISO 9001 CERTIFIED
SIC.MS.008.ISO9001.4221

Бюро Міжнародної Сертифікації, 04210, вул. Оболонська набережна 19, корп. 4, оф. 14, Київ, Україна
Тел.: +380676529691, info@bic-cert.com.ua, Атестат акредитації: GAS.CB.804.008 від 11.01.2022 р., видан Global Accreditation System (GAS)
www.sic-global.com

Company partner: Contract Research Laboratory

The laboratory, certified to ISO 17025, provides product testing, scientific research, product composition and formulation analysis (benchmarking), and authenticity assessment.

The laboratory has physicochemical, chromatographic and spectral research departments. Its equipment includes gas and liquid chromatographs, visible and ultraviolet spectrophotometers, Fourier-transform infrared spectrometers, an atomic absorption spectrophotometer, an inductively coupled plasma mass spectrometer and other instruments. Analytical and auxiliary equipment, purpose-equipped facilities, methodological resources and qualified staff enable the laboratory to address a wide range of customer research tasks.

The laboratory develops new measurement methods and implements them in the work of various organisations.

The laboratory's training centre teaches customer staff to operate NEOCHROM chromatography equipment and other analytical instruments for enterprises and organisations in Ukraine and other countries.

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NEOCHROM ASIA LLP

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