

3 VIYON MIDDLE EAST L.L.C · SECTOR BROCHURE 3 OF 7

Oil, Gas, Fuels & Petrochemical Validation Platforms

A robust suite of chemical reference standards, specialized capillary columns, and heavy industrial vacuum arrays designed to monitor refinery stream purity and execute high-pressure hydrocarbon analysis.

Part of **Industrial Application & Technical Workflow Solutions**, the strategic portfolio of Viyon Middle East L.L.C., built on the high-tier analytical and industrial brands we represent across the United Arab Emirates.

38

single elements in oil

S-12 · S-21

multi-element blends

HT5 · HT8

high-temperature columns

$\leq 5 \cdot 10^{-2}$ mbar

rotary vane rough vacuum

BRANDS IN THIS BROCHURE



Certified Hydrocarbon, Metallo-Organic & Fuel Reference Standards

Products

- **CONOSTAN[®] Standards:** Metallo-organic element-in-oil standards, multi-element oil blends (S-12 and S-21), JOAP D-Series standards, RDE spectroscopy supplies, and ASTM fuel/sulfur calibration mixes.
- **Single Element Standards:** 38 elements at 1,000 ppm and 5,000 ppm in a 20 cSt mineral oil matrix, 50 g format, with an ISO 17025 compliant Certificate of Analysis.
- **Sulfur, Biodiesel and Chlorine Standards:** For XRF, ICP, and UV-F analyzers under ASTM D2622, D4294, D5453, D6334, D6443, D7039, D6751, and EN14214; chlorine in mineral oil from 10 to 50,000 ppm. Sulfur CRMs come in 9 stocked matrices from 0 to 50,000 ppm, including ASTM D7220.
- **Hydrocarbon Standards for GC:** Neats, solutions and ready-to-use mixes for ASTM D2887 simulated distillation, D3606, D4815, DRO, GRO, TPH and VOC.
- **Physical & Chemical Property Standards:** More than 200 CRMs for TAN, TBN, viscosity and flash point (ASTM D93, D445, D664, D2896, D7042, ISO 2719, IP 34).
- **Instrument Consumables & Fuel Microbial Kit:** Stocked XRF cups and film, nebulizers, spray chambers, torches and pump tubing, plus a bacteria and fungi test kit for fuel systems that needs no complex incubation, available in the UAE.



Sulfur in crude oil



Chlorine standard and blank



RDE graphite electrode

MANUFACTURER / SUPPLIER



CONOSTAN[®] / AnalytiChem (ISO 17034 · ISO/IEC 17025 · ISO 9001)

TECHNICAL DATA

S-12 and S-21 element sets

Ag Al Cr Cu Fe Mg Mn Na Ni Pb Si Sn B Ba Ca Cd Mo P Ti V Zn

☒ S-12 and S-21 ☐ S-21 only



CONOSTAN oil analysis standards



CONOSTAN S-21 multi-element blend

High-Temperature Hydrocarbon Chromatography & Microfluidics

Products

- **Capillary Columns & Microfluidics:** High-temperature GC columns (HT5, HT8, Molsieve 5A), SilTite® metal ferrules, and SilFlow® planar microchannel devices.
- **SilTite® Leak-Free Connections:** Metal ferrules that stay leak free through temperature cycling without re-tightening, plus FingerTite versions installed by hand with no tools, for Agilent, PerkinElmer, Shimadzu and Thermo Scientific injectors and MS interfaces.
- **BP BOND PLOT Columns:** BP BOND U for trace H₂S, COS and mercaptans in hydrocarbon streams, BP BOND Molsieve 5A for refinery and natural gas (argon/oxygen separated at ambient temperature), and BP BOND Q for light hydrocarbons and solvents.
- **Carrier Gas Filters:** Oxygen (below 50 ppb), moisture and hydrocarbon filters with indicator colour change, and Big Trap bulk purifiers (750 cm³, 250 psig) for labs feeding several GCs from one line.
- **SilFlow® Planar Microchannel Device (MCD):** Deactivated stainless steel 3-port, 4-port, or Deans' Switch networks for multi-dimensional GC sample splitting.



SGE capillary GC column



SilFlow microchannel device



BP BOND PLOT column



Big Trap gas filter

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Trajan Scientific / SGE Analytics

Industrial Vacuum Processing & Refinery System Blowers



Products

- **Vacuum Pumps & Blowers:** SOGEVAC, TRIVAC, VARODRY, LEYVAC, and RUVAC lines offering robust rough vacuum generation and dry screw pumping.
- **Oil-Sealed Rotary Vane Pumps (SOGEVAC & TRIVAC):** SOGEVAC delivers 10 to 840 m³/h down to $\leq 5 \cdot 10^{-2}$ mbar with oil loss under 1 ppm; TRIVAC dual-stage pumps reach 10^{-4} mbar. ATEX (2014/34/EU) and O₂-compatible versions are available.
- **VARODRY and LEYVAC Dry Screw Pumps:** Dry screw pumps down to $\leq 1 \cdot 10^{-2}$ mbar with no process oil migration: air-cooled VARODRY (65 to 200 m³/h) and hermetically sealed LEYVAC (80 to 160 m³/h) for hazardous gases.



SOGEVAC rotary vane pump



TRIVAC dual-stage pump



VARODRY dry screw pump



LEYVAC dry screw pump



RUVAC roots pump

MANUFACTURER / SUPPLIER



Leybold Vacuum Components

Calibration Standard Storage



Laboratory refrigerators for keeping GC, HPLC, and AAS calibration standards and reagents at a controlled temperature.

MANUFACTURER / SUPPLIER



Excelsior Scientific Ltd (UK) · thermostatic laboratory equipment

THERMOSTATIC EQUIPMENT

CHL Laboratory Refrigerators



Single or double chamber laboratory refrigerators from 0°C to +15°C, with -10°C to +15°C available as an option. Forced air convection, defrosting, and microprocessor time and temperature control.

- **Applications:** storing water and sewage samples and piezometer leachate, AAS, GC, and HPLC calibration standards, reagents, and chemicals.
- **Standard equipment:** solid door (glass optional), RS 232, wire shelves, and a test certificate at +4°C.



CHL laboratory refrigerator

MODEL	CHL 1	CHL 2	CHL 3	CHL 4	CHL 5	CHL 6	CHL 500	CHL 700	CHL 1200	CHL 1450
Chamber capacity (L)	70	150	200	250	300	400	500	625	1365	1460
Working capacity (L)	55	122	163	203	243	324	386	450	1229	1307
Nominal power (W)	160	170	170	330	330	330	400	400	550	550
Weight (kg)	32	54	59	69	75	90	105	115	185	200

THERMOSTATIC EQUIPMENT

Controllers, Software & Qualification



Every Excelsior thermostatic unit uses a PID microprocessor controller. All products can be supplied with a calibration certificate from an accredited measurement laboratory and with IQ, OQ, and PQ qualification.

- **STD controller:** LCD graphic display, six-segment profiles, 3 user programs, alarms, power failure recovery, and memory for 2,046 data records.
- **TOP+ controller:** 5.7" colour touch screen, up to 100 program segments, 20 user programs, user accounts with login, password-protected settings, 4,100 records per user, USB export, and remote control over Ethernet or the internet.
- **EasyLab software:** EasyLab Basic downloads stored data to a PC free of charge; EasyLab Professional adds continuous logging, charts, reports, and TOP+ programming.



STD microprocessor controller



TOP+ colour touch screen



EasyLab software screen

LOCAL ASSURANCE

Regulatory Clearance, Local Assurance & Contact

Certified Local Quality Assurance & Machinery Safety

- **UAE Compliance:** Viyon Middle East L.L.C ensures that 100% of our distributed machinery, high-pressure vessels, and chemical standard stocks are fully compliant with the regulatory guidelines of the United Arab Emirates.
- **High-Pressure Vessel Authorization:** Rodwell autoclaves operate as precision-engineered pressure systems creating door forces up to 11 tonnes. Viyon manages the mandatory structural safety, validation, and calibration alignments required for local mainland and free zone operations.
- **Industrial Compliance Coordination:** Registered to support direct chemical, petroleum, sterilization, and medical data logistics required by ADNOC Research, free zone safety inspectorates, the Dubai Municipality portal (Montaji parameters), and the Ministry of Health and Prevention (MOHAP).

Request a quotation



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