gamma group

Corporate portfolio 2026



Join the change

Engineered solutions

Improve your company's performance with cutting-edge chemical engineering solutions.

ISO 9001
LL-C (Certification)

46 years
of experience since 1980

120 m³/h
per containerized water plant

99.5%
hydrocarbon removal with SiC membranes

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46 years transforming process streams

Mission

To produce and market specialty chemicals and sustainable technology solutions for the treatment of industrial water and process streams, using highly certified procedures backed by qualified people to ensure customer satisfaction, operational efficiency and the sustainable growth of our organization.

Vision

To be the leading company in Latin America and the Caribbean in the supply and marketing of innovative, high-value specialty chemicals and technology solutions for water and process stream treatment, recognized for its commercial alliances with top national and international suppliers, environmentally clean production processes, cost competitiveness, qualified people and strict quality processes.

46
years of experience

+100
customers served

+30
projects completed

+120
m^3/h per plant

Our history

1980
Gamma is born as a representative of Rohm and Haas.

1996
Rohmax additives for Venezuela, Colombia and the Caribbean.

2009
Dow acquires Rohm and Haas; its products arrive through Gamma.

2018
Thermotics, Liqtech and DuPont Water Solutions join.

2020
Exclusive representation of Amines & Plasticizers.

Gamma Group: Gamma Chemical Corp. (USA and Colombia), Gamma Química de Venezuela, Gamma Química del Sur (Argentina), Gamma Project & Financing KFT (Hungary), Gamma Química International, S.A. (Panama), Kanzen Enviromental Services (Colombia)

What guides us

ISO 9001
LL-C (Certification)

Corporate values

- **Integrity**
- **Safety**
- **Shared growth**
- **Innovation**
- **Commitment**
- **Adaptability**
- **Teamwork**
- **Excellence**
- **Sustainability**

Operating pillars

Specialized products

Tailored selection and formulation for each industry.

Logistics excellence

National and international supply chains for on-time deliveries.

Comprehensive after-sales support

On-site and remote technical assistance, field inspections, physicochemical analysis and training.

IPC water projects

Turnkey execution, including Plug & Play containerized systems.

Quality policy

Services that deliver added value and exceed our customers' expectations.

To provide our customers with marketing services for specialty chemicals and technology solutions, and with the installation and operation of facilities for the treatment of industrial water and process streams, based on our strategic direction and in compliance with our customers' requirements, applicable regulations and the standards of our Quality Management System, driving continuous improvement in every process. We exceed expectations while periodically measuring and optimizing our Quality objectives, through customized services that deliver added value.

One company, eight industries

Specialty chemistry, membranes and water projects for every industry, with technical support at the plant.

Oil and gas

Demulsifiers, friction reducers, asphaltene dispersants and H_2S scavengers to produce and transport crude oil.

Customers: PDVSA, Chevron, Shell, BP, ExxonMobil, CITGO, Maurel & Prom, ENI, Repsol, among others.

Refining

Amines, coke antifoams, corrosion inhibitors and process water programs.

Customers: Petropiar, Petrocedeño, Petromonagas, Isla Curaçao Refinery, Paraguaná Refining Center, El Palito Refinery, Puerto La Cruz Refinery.

Petrochemicals

Resins, catalysts, amines and cooling and steam water treatment.

Customers: Pequiven, Pralca, Oxiteno, Metor, Supermetanol.

Mining and metals

Flocculants, activated carbons, ion exchange resins and process water.

Customers: Ferrominera Orinoco, Sidor, Orinoco Iron, Briqven (Matesi), Bauxilum, Minerven, among others.

Agribusiness

Biocides, flocculants and antiscalants for milling and clarification in sugar mills.

Customers: Central El Palmar, Central Azucarero Portuguesa, Central Azucarero Batalla de Araure, Central Azucarero La Pastora, among others.

Food and beverage

Reverse osmosis, demineralization and food-grade process water plants.

Customers: Empresas Polar, Nestlé, Cervecería Regional, Puro Lomo, among others.

Paints and lubricants

Specialty chemicals and additives for formulation and manufacturing.

Customers: Corimon, Venezolana de Pinturas, Resimon, Invepal, Castrol, Valvoline

Energy and industry

Osmosis, demineralization and steam generation for boilers and reformers.

Customers: Corpoelec, CAVIM, Linde

Three areas of work, one technical partner

Specialty chemicals supply

More than 300 specialty products from leading manufacturers and in-house formulations, with local technical assistance for each one.

- Amines: MEA, DEA, MDEA, DIPA and Formulated Amines
- Glycols: MEG, DEG and TEG
- Ion exchange, adsorbent, chelating and catalysis resins
- Reverse osmosis, nanofiltration and ultrafiltration membranes
- Catalysts and support beds
- Activated alumina, molecular sieves and silicas
- Granular and powdered activated carbon
- Sand, gravel, anthracite, cellulose and polypropylene filters
- Sodium and potassium carbonates; potassium metavanadate
- Solvents and mutual solvents
- DMS and DMDS
- Bulk acids and caustic soda
- Silicone antifoams
- Reactor internals: distributors, nozzles, scallops and center pipes

Chemical treatment for water, crude oil and gas

Complete programs with diagnosis, formulation, application and follow-up. Dedicated section on pages 8 to 14.

- Cooling water, boilers and effluents
- Crude oil dehydration and flow assurance
- Sweetening and H_2S control
- Production at our own plant in Cagua

Engineering projects

Turnkey engineering, procurement and construction, with subsequent operation and maintenance.

- Reverse osmosis and demineralization plants
- Polymeric and ceramic ultrafiltration
- Plug & Play containerized plants
- BOO and BOT schemes
- OTSG steam generators for enhanced recovery
- Pumping and injection equipment
- Operation and maintenance

Products we supply in each sector

Summary by industry; request the full portfolio and technical data sheets.

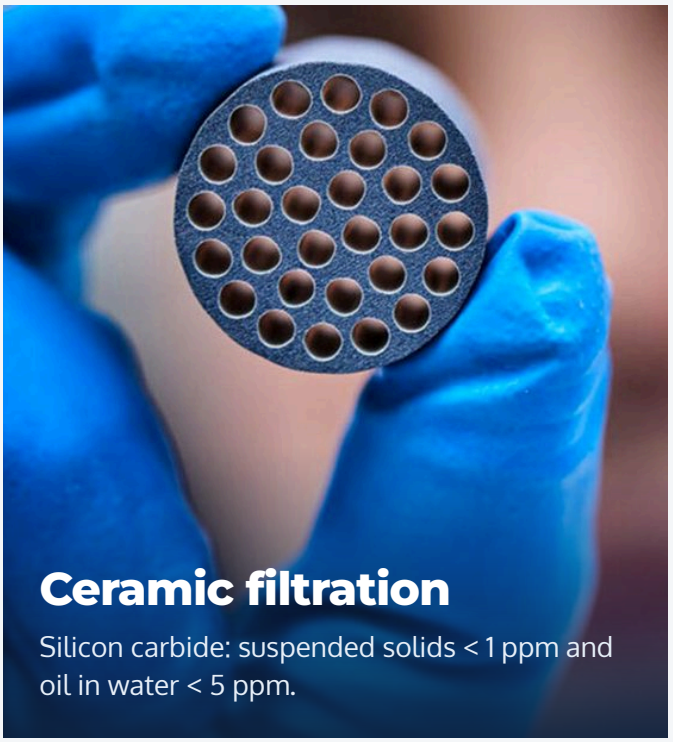
Oil and gas	Demulsifiers DRM-01 and Dabare 1028; friction reducers MFA-1501 and MFA-1401; asphaltene dispersant ADP-01; paraffin inhibitor DFP-300; antifoam SL-050; H_2S scavengers S-300 and CS-1513; corrosion inhibitor WCI-20 and scale inhibitor DP-4310; glycols and solvents.
Refining and upgrading	Coke antifoams SL-100 and SL-200; filming amine FL-01D; neutralizing amine PMP-05D; demulsifier DRM-01A; halogen scavenger; MDEA sweetening amines; catalysts, aluminas, sieves and ceramic balls; DMDS.
Petrochemicals and fertilizers	Antipolymerants AF-605AP and antioxidants AF-605AE; steam corrosion inhibitor CFP-31; Amberlite demineralization resins; BW30 osmosis membranes; Versene chelants; potassium carbonate; bulk acids and caustic soda.
Mining and metals	Flocculants and coagulants; activated carbon; ion exchange resins; chelating resins; membranes for sulfates in lithium and selective retention of gold, copper and lithium; NanoMedia Metals from Coral Innovations.
Sugar and agribusiness	Oxidizing and non-oxidizing biocides; flocculants and coagulants; antiscalants and dispersants; antifoams, enzymatic color removers, cane growth enhancers, color removal resins, pesticides, sanitizers.
Food and beverage	Reverse osmosis membranes; membrane cleaners RO-432 and RO-732; Amberlite IRC120 softening resins; activated carbon and filter media; biocides and antifoams, chemical treatment for boilers, reverse osmosis, cooling towers and effluents.
Paints, paper and lubricants	Solvents: xylene, butyl glycol, Solvesso 150 and Dowanol; SURF-01 nonionic surfactants; silicone antifoams; fuel and lubricant additives.
Energy and industry	Corrosion inhibitors for towers ICCT-01 and for yellow metals TL; biodispersant BIO NP-1; boiler amine BMP-95; oxygen scavengers BSNA and BHI-15; dispersant CSIN-01; biocides OX-73, OX-71 and OX-79; ultrapure water production for mist systems for temperature control.

From the chemical product to the complete plant



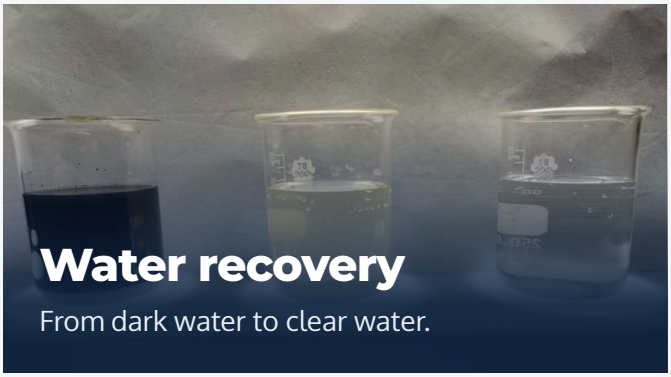
Crude oil and gas

Demulsifiers, friction reducers, asphaltene dispersants and H_2S scavengers.



Ceramic filtration

Silicon carbide: suspended solids < 1 ppm and oil in water < 5 ppm.



Water recovery

From dark water to clear water.

Specialty supply

Resins, membranes, amines, glycols, catalysts and filter media.

IPC and BOO/BOT projects

Engineering, procurement and construction, or water under contract: you pay for what you receive.

Technical support

Field monitoring, engineering advice and staff training.

Our value is our people.

Engineers, technicians and analysts in the field, backed by the manufacturers we represent.

Production and flow assurance



Formulations for light, medium, heavy and extra-heavy crude, tuned to the thermal and salinity conditions of each reservoir.

Dehydration and separation

Custom demulsifiers for the Orinoco Oil Belt (Ayacucho, Junín, Carabobo and Boyacá) and Northern Monagas. Slug emulsion breaker **Gamma F-500** and reverse demulsifier **Gamma EB-10**.

Flow assurance

Asphaltene dispersant **Gamma ADP-01**, paraffin inhibitor **Gamma DFP-100** and scale inhibitor **Gamma DP-4310, 4320, 4330,** Solids wetting agent **Gamma WS-100.**

Transport optimization

Friction reducers **Gamma MFA-1501** for heavy crude and **MFA-1401** for naphtha; viscosity reducer **Gamma RVC-500**.

Gas control

H_2S scavengers **Gamma S-200** and **Gamma S-300, Gamma SHS-90** y **Gamma SHS-200** the latter triazine-free H_2S scavengers and fast-acting.

> 30%

increase in pumping rate in Palmichal with less than 5 gph of friction reducer.

< 0.2%

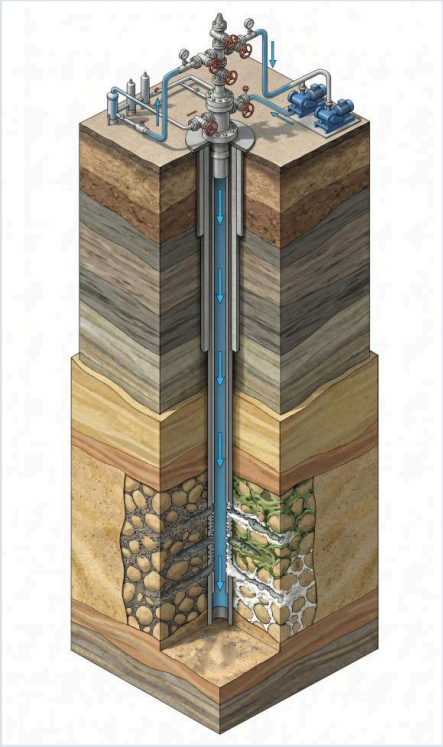
water and sediment in the Orocual field, with savings of over 40% and 9.3 MBPD.

Formulas developed by region

Northern Monagas: Punta de Mata, Furrial, Santa Bárbara, Quiriquire, Orocual and Boquerón.
Oil belt: Ayacucho, Junín, Carabobo and Boyacá blocks.
Zulia: Tía Juana, Bachaquero, La Rosa Mediano and Lago Cinco.

Untreated produced water

Water that does not meet reinjection quality damages the formation, stops equipment and compromises production.



Solids and sands

Clays and silica clog pumps, cause mechanical failures and plug the pores of low-permeability formations, raising injection pressure.

Oils and grease

Emulsified hydrocarbons saturate injection formations, block flow channels and cause unplanned shutdowns of surface equipment.

Bio-growth

Sulfate-reducing bacteria (SRB) cause souring and biocorrosion, with resistant biofilms that act as a persistent organic plug.

Required water quality

Parameter	Reinjection (fine sands)	Discharge (Decree 883)
Oil in water (OIW)	< 1 to 5 mg/L	< 20 mg/L
Total suspended solids (TSS)	< 1 to 5 mg/L	< 80 mg/L

High injection pressure at the injection plant can **stop crude oil production** by plugging the well and force costly coiled tubing maintenance jobs.

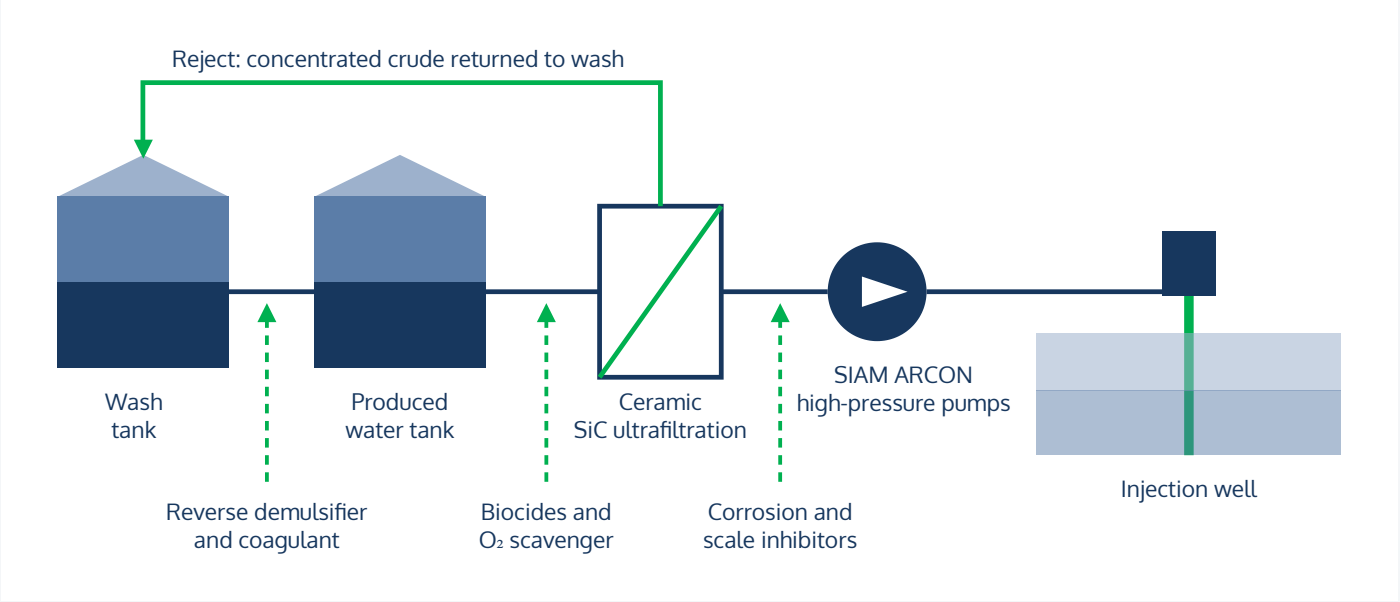
With ceramic ultrafiltration
Injection water within specification.

5 to 10 ppm oil · 5 to 10 ppm solids · < 10 CFU/mL

Complete solution for produced water reinjection

From hydrocarbon to well-ready water: physical and chemical treatment, high-pressure pumps and service, with a single point of responsibility.





Hydrocarbon removal

Silicon carbide ceramic ultrafiltration: over 99.5% of total hydrocarbons, solids < 1 mg/L and < 1 CFU/mL.

Chemical program

Reverse demulsifiers, coagulants and flocculants, oxidizing and non-oxidizing biocides, corrosion inhibitors, traceable scale inhibitors and oxygen scavengers.

High-pressure pumping

SIAM ARCON Duplex, Triplex and Quintuplex pumps of up to 5,000 PSI, with original spare parts for well injection.

Comprehensive service

Specialized technical assistance, operation and maintenance, and supply of reciprocating pumps for well injection.

Service models

By volume treated

Billing in US$/m³ of treated water.

Operation and maintenance

Supply under a Take or Pay arrangement.

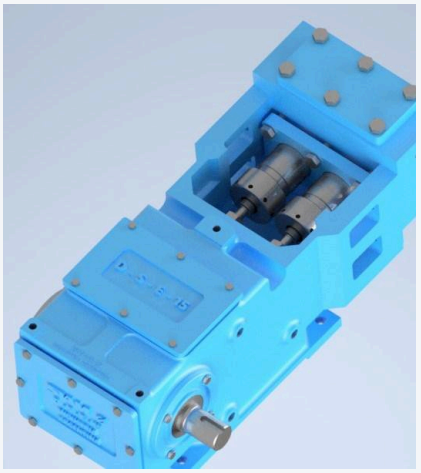
BOT / BOOT

Supply and after-sales technical assistance.

SIAM ARCON in Venezuela

Pumps and spare parts for water reinjection

High-pressure reciprocating pumps for secondary and tertiary recovery, with original spare parts and local support.







From 15 HP to 430 HP

Line	Power	Recommended service
Duplex D-SE 15 to D5x10P	15 to 120 HP	Medium injection, bleed-off water, drilling mud and portable services
Light and medium triplex J-30, J-60, J-80	30 to 80 HP	Chemical injection, low- and medium-scale secondary recovery, Power Oil
Heavy triplex J-100, J-150, J-165, J-200	100 to 200 HP	Continuous 24-hour operation, crude oil pipelines, polymer injection
Quintuplex J-275, J-300, J-430	275 to 430 HP	High-volume injection, full-scale tertiary recovery, trunk pipelines

5,000 PSI
pressure of the high-pressure J-430-H version

430 HP
maximum power of the Quintuplex line

12 months
certified warranty on new equipment and repairs

Original spare parts

Plungers, valves, packings, liners and connecting rods, for maximum uptime and less downtime.

Local backing

Commercial advice, technical service and spare parts in Venezuela. Equipment under API 674 and ISO 9001; more than 45 years of SIAM ARCON in Latin America.



Enhanced oil recovery

Steam to push the oil

Thermotics once-through OTSG steam generators drive the thermal injection that increases extra-heavy crude production.

10 to 400 MM BTU/h
design capacity

1,500 to 2,600 psi
continuous operation

+2,000
generators supplied worldwide

Since 1967
Thermotics, OTSG leader

Continuous steam injection optimizes the viscosity of extra-heavy crude in deep formations, such as those of the Orinoco Oil Belt and Zulia, and mobilizes it toward the producing wells.



The oil heats up, its viscosity drops and it is pushed

Sustained pressure

Continuous operation at 2,500 to 2,600 psig to overcome well backpressure, with Schedule 80 and 160 piping.

Once-through

Continuous coil that prevents scale buildup and tolerates brackish or recycled high-hardness water.

Modular and mobile

Skid- or trailer-mounted units, dual process gas or diesel burner and minimal civil works.

Gamma, strategic partner in Venezuela

Engineering, procurement and construction with customs management, logistics, installation and commissioning, plus technical support in the field.

From raw water to steam: water plant and OTSG as a single system

Feedwater quality defines the generator's service life. A unified design eliminates incompatibility between systems from different suppliers.

Phase 1

Pretreatment and filtration

Multimedia filtration and polymeric or ceramic ultrafiltration to remove turbidity, iron and solids. Modular systems from 25 to 360 m³/h.

Phase 2

Demineralization and softening

High-capacity ion exchange resins and reverse osmosis to remove calcium, magnesium and salts, and prevent scaling and tube overheating.

Phase 3

Chemical conditioning

Oxygen removal membranes and automatic dosing skids to scavenge oxygen and adjust pH, with monitoring and variable frequency drives.

Case in Venezuela: Total S.A. Petrocedeño, Orinoco Belt, 2017

Autonomous high-pressure steam at a remote location.

27 MM BTU/h OTSG to operate continuously up to 2,600 psi, with a dual process gas or diesel burner.

65 GPM mobile plant on a 30-foot trailer, with automated multimedia filter and dual-train softeners.

Three dosing skids to protect the coil against corrosion.

PLC and MCC control with variable frequency drives to optimize hydraulics.

Business models

Equipment sales (CAPEX)

OTSG generators and water plants with local support, customs management, logistics, installation and turnkey commissioning.

Steam-as-a-Service (OPEX)

Zero upfront investment: Thermotics provides, operates and remotely maintains the unit, and you pay for the steam by tariff.

Chemical treatment

Water and gas

Diagnosis, formulation, application and in-plant follow-up for water systems and gas streams.

Water and steam

Cooling. corrosion inhibitors ICCT-01 and TL for yellow metals, biodispersant BIO NP-1 and oxidizing biocides OX-73, OX-71 and OX-79

Boilers and steam. neutralizing amine BMP-95, steam corrosion inhibitor CFP-31, oxygen scavengers BSNA and BHI-15 and antiscalant CSIN-01

Effluents and production. inorganic coagulant Polipak-1, flocculant PAE-C001 (also high molecular weight), filtration aid F-1062, pH regulators and reverse demulsifier EB-10 to remove traces of crude oil

Reverse osmosis. dispersant BW-5400 and acid and alkaline cleaners for membranes and resins: RO-432, RO-732, RC-100 and RC-400

Gas and sweetening

Sweetening. MEA, DEA and MDEA amines, and UCARSOL solvents to remove H_2S and CO_2; MDEA supply to Chevron-Petropiar and Petrocedeño

H_2S control. triazine-free Gamma S-300 and Gamma S-500 scavengers

Foams and gums. silicone antifoams SL-050, SL-100 and SL-200 with silicones of 12.5K cSt, 60K cSt and 100K cSt; critical antioxidants and antipolymerants AF-605.

Dehydration. TEG, DEG and MEG glycols; molecular sieves and aluminas.

Sulfur and cleaning. DMS and DMDS; biodegradable industrial cleaners RP-40 and crude oil cleaner RP-50

PSA units. Activated carbon, alumina, ceramic balls, molecular sieves.

Global service

Process plants that trust Gamma with their treatment.

Metanol de Oriente, Linde, Supermetanol, Pralca and Fertilizantes Oriente entrusted us with the chemical treatment of their cooling and steam systems, along with the operation of reverse osmosis plants.



Our added value

Every product comes with a technical team behind it

Engineers and technicians accompany each program at the plant, from the first test to optimization.

Monitoring and analysis
Tracking of variables, routine and specialized analysis, and technical reports.

Portable laboratories, trailers and central lab
HACH and Lovibond analysis technology for on-site results.

Field audits
Verification of the performance of each program in operation.

Expert advice
Application engineers with international backing from Dow, APL and DuPont, among others.

Training and operation
Staff training and operation and maintenance service with high-level technicians and engineers.

How we support each program

On-site diagnosis → Laboratory tests → Field application → Monitoring and reports → Continuous optimization

At the plant, not just in the order.

Local technical support, professional training for our customers, mobile laboratories and on-site analysis make it possible to adjust doses and programs with real data from your operation.

Partnerships with industry leaders

Technical, commercial and training backing from world-leading manufacturers.

DuPont Water Solutions

Ion exchange resins, reverse osmosis, nanofiltration and ultrafiltration membranes, and Flat Sheets for V-SEP vibratory membranes.

The Dow Chemical Company

High-performance materials, polymers, solvents, glycols, silicones and industrial chemicals.

Lanxess

Biocides, additives, specialty chemicals and material protection technologies.

Amines & Plasticizers Limited

Basic and formulated amines for gas sweetening and refining.

Liqtech and Cembrane

Silicon carbide ceramic membranes for ultrafiltration and membrane bioreactors.

Mega

Electrodialysis technologies, EDI, EDBM, EDR, among others, for demineralization or stream valorization applications.

Olin

Basic chemicals and specialties such as Perchloroethylene, Hydrochloric Acid, Caustic Soda, among others.

Johnson Screens

Radial and axial reactor internals, scallops, center pipes, screens and flow distributors.

Thermotics, Zhongi and ProMinent

Thermal equipment, dosing and industrial instrumentation.

Coral Innovations

New technology: reusable synthetic media to recover hydrocarbons and metals.

Coral Innovations

Oil spill control



Reusable synthetic media to recover hydrocarbons from spills and oily waters.

Technology	Absorption	Reuse	Performance
OleoSorb™ Boom	30 kg of oil per kg of absorbent	More than 20 times	$0.09 per liter recovered
OleoSorb™ Pad	30 kg of oil per kg of absorbent	More than 20 times	$0.05 per liter recovered
NanoMedia™ Oils	4 kg of oil per kg of absorbent	More than 5 times, in situ	From over 1,000 ppm to under 30 ppm
NanoMedia™ Metals	Selective metal capture	High resilience in acidic waters	Removal of Cu, Zn and Pb

10×

less operating weight than activated carbon or walnut shell, with loads of over 1,000 ppm of hydrocarbon.

European port trial: bilge water

420 → n.d.

ppm of oil, not detectable after filtration.

−80% in disposal costs.

Applications: spills at ports and terminals, oily process and bilge water, and treatment of mine water with heavy metals.



Ultrapure water, end to end

Raw water
Well, river, effluent or process water.

Pretreatment
Filter media and polymeric or ceramic ultrafiltration.

Reverse osmosis
DuPont membranes, recovery +75%.

Polishing
Ion exchange, EDI and degassing.

Ultrapure water
SiO_2 < 10 ppb and < 1 µS/cm.

120 m³/h
per Plug & Play containerized plant

+1,000,000 m³
of demineralized water produced

1,550 psi
boilers and reformers supplied

Reverse osmosis plant for demineralized water production - Supermetanol, C.A.

226 → 0.60
mg/L of dissolved solids, average

8 → 0.020
mg/L of reactive silica, average

Technology backing

DuPont Water Solutions, The Dow Chemical Company, Lanxess, Amines & Plasticizers, Liqtech, Cembrane, Johnson Screens, Mega, Olin, Thermotics, Zhongi, ProMinent and Coral Innovations.

gamma group

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Water plant engineering

+100 customers served

+10 major projects

+50 applied technologies

+30 projects in +3 countries

Technologies we master

Ceramic ultrafiltration | Polymeric ultrafiltration | Reverse and forward osmosis | Ion exchange | Adsorption and filtration | Electrodialysis | V-SEP vibratory membranes | Degassing

Applications developed

Water and energy

Drinking water plants; demineralization by ion exchange and reverse osmosis; condensate polishing; stream degassing; COD reduction; effluent recovery.

Food and beverage

Concentrate of albumins, proteins and dairy whey; coffee extract, juices and wine (10 m^3/h plant); color and organic acid removal in sugar juices and syrups; vinasse.

Oil, gas and mining

Sweetening amine purification; produced water and crude oil in wells with high water cut; drilling mud; hardness in brines; sulfates in lithium; selective retention of gold, copper and lithium.

Contracting models

Buy the plant or contract the water: you choose the model.

Gamma executes your water plant as a turnkey project and, when the project justifies it, evaluates water-as-a-service schemes with payment for water delivered to specification. Scope, investment and timelines are defined case by case.



Recovering and adding value to process streams

< 1 ppm
total suspended solids in the permeate

< 5 ppm
oil in water

+95%
oil recovery

800 °C
thermal resistance of the SiC membrane

Applications

Crude oil in produced water and wells with high water cut

Water in fracking and drilling mud

Sweetening amine purification

Diesel filtration and water removal

Silicon carbide membrane bioreactors (MBR)

Textile color removal

Cooling blowdown recovery

Semi-closed vehicle wash cycles

Documented case: MAX Field (GeoPark), Villanueva, Casanare, Colombia

Stream	Suspended solids (mg/L)	Oil in water (mg/L)	Destination
Inlet: produced water at 80 °C	103 average (32 to 371)	314 average (70 to 1,475)	SiC ceramic ultrafiltration
Permeate: treated water	0.28 average	0.16 average (0 to 5)	Clear water ready for use
Reject: 10% to 15% of volume	350 to 1,050	1,500 to 4,500	Skimmer tank to recover crude oil

The silicon carbide membrane is hydrophilic and oleophobic, tolerates pH from 1 to 14 and offers more than 10 years of durability.

An international network, one standard

Six Gamma Group companies work across three continents with industry-leading principals.



1 **Gamma Chemical Corp.**
United States

2 **Gamma Química International, S.A.**
Central America

3 **Gamma Química de Venezuela, C.A.**
Venezuela

4 **Kanzen Enviromental Services, S.A.S.**
Colombia

4 **Gamma Chemical Corp.**
Colombia

5 **Gamma Química del Sur, S.A.**
Argentina

6 **Gamma Project & Financing KFT**
Hungary

Present across the country

Four offices and sales teams in each region, with technical support at the plant.



Four regions, one technical network

- **Capital**
  Caracas and La Guaira
- **Central**
  Aragua, Carabobo and the central plains
- **West**
  Zulia, Falcón and the Andes
- **East and Guayana**
  Anzoátegui, Monagas, Oil Belt and Guayana
- Offices: Caracas, Cagua, San Francisco, Lechería

Capital

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Central

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East

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