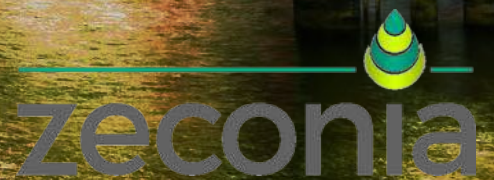


Oilfield Chemicals

Delivering ecofriendly, proven and sustainable oilfield production chemical solutions.





Health, Safety and Environment

It is our goal to be an industry leader in all facets of our endeavors. Therefore, we remain ever committed to Health, Safety and Environmental performance by protecting the health and safety of our workforce, the people in the communities where we operate and the users of our products.

Our Clients





About Us



ENERGY

+



LIFE

=



INNOVATION



Zeconia is an oilfield chemicals service provider, technical and logistic expert. We provide oilfield production chemicals, commodity chemicals and different brands of lubricants. We pride consistently with innovative chemistries in conjunction with **our technical partners:**



Since the inception of Zeconia, the directors have been intent upon conducting company business in a manner which is ethically and morally in line with the best practices accepted within the industry.

We are duly registered with the appropriate authorities, and have active relationships with OEMs. Zeconia is administratively headquartered in Lagos, with a warehouse and operational base in Port-Harcourt, Rivers State.

Today's proactive measures are designed to identify and remove risk to people, equipment and the environment and to foster an open minded culture which values Safety and Health for its own sake. The oil and gas business is cynical. Some areas can be down while others are flourishing. By being diversified, we can sustain our growth. It is a key policy of Zeconia.

A premier chemical and procurement firm, Zeconia is at the heart of Nigeria's chemical and procurement industry. Our products find use in every aspect of oil and gas industry (From stimulation, to production, and completion). Zeconia is a premier leading specialty chemicals company.

Our Vision

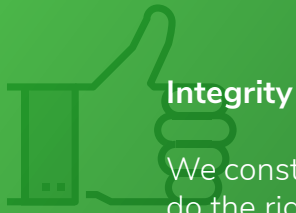
To be the leading ,resourceful and highly reputable Onshore and Offshore Servicing Company.

Our Mission

To ensure ultimate end user satisfaction by delivering reliable, timely and quality products and services at competitive prices.

Our Core Values

Our core values are deeply ingrained principles that guide our company's actions, and serve as our cultural cornerstones. They remain a source of inspiration when carrying out our business activities. They also support the Company's mission and vision as they lead us to our desired destination. Our Core Values are:



Integrity

We constantly deal in Truth and Honesty. We are truthful in all our dealings and do the right thing. We remain completely honest and follow ethical principles.



Continuous Improvement

We are consistently finding ways to exceed expectations and hold ourselves to a very high standard of service delivery which pushes us further at every step to improve on every previous success.



Devotion / Customer Satisfaction

We are constantly devoted to customer satisfaction. We are devoted in our work to ensure ultimate customer satisfaction by delivering quality goods and services with good customer care relations. We are always ready to attend to the needs of the customers and satisfy them to the best of our abilities.



Innovation

We constantly remain advanced and ahead of times. We identify new ideas that create value which involves taking risks, inspiring creativity, inventing and learning from our outcomes. We also study the weaknesses in our industry and create innovative long lasting solutions on how to overcome them. We anticipate change and respond with creative solutions.



Your Full Service Oilfield Production Chemical Company

When you need consistent quality chemicals that will not only provide exceptional performance, but actually increase your efficiency, you need Zeconia. Our knowledgeable team has over a century of combined experience in the oilfield production chemical industry and is completely dedicated to providing clients with innovative and cost effective solutions.

As a full service company, we provide everything from specialty chemicals ranging from Stimulation, Production, Commodity, Drilling, Completion, Gas processing, Refining and custom blending to chemical performance monitoring in the field. We also offer a suite a technologically advanced laboratory services, drilling products and rental equipment.

Results-driven products backed by unparalleled experience and personal service. That's what you should expect from your chemical producer and supplier...and that's exactly what you get when you choose Zeconia.

Here are some of the production chemicals we offer:

- Demulsifiers
- Water Clarifier
- Biocides
- Flow Assurance Chemicals
- Corrosion Inhibitors
- Defoamer
- Foamers
- Acids
- Carbon Dioxide Scavengers
- Hydrate Inhibitors
- Hydrogen Sulfide Scavengers
- Oxygen Scavenger
- Paraffin Dispersants
- Paraffin Inhibitors
- Salt Inhibitors
- Scale Inhibitors
- Surfactants
- Viscosity Modifier
- Drag Reducing Agents
- Glycols (TEG, DEG, MEG)



Zeconia Chemistry Overview

Phase Separation

PRODUCTION

■ Demulsifiers

Solution

Demulsifier formulations ensure separation or “breaking” of oil-in-water emulsions and oil-in-water content of the separated water meet required specifications.

Chemistries

Polyol block copolymer, Alkoxylated alkyl phenol formaldehyde resin, Epoxy resin alkoxylate, modified silicon polyether and amine-initiated polyol block copolymer

Product

Zeconia ZEC D

Segment

Production

Advantages

- Fast water/oil interface penetration
- Flocculation – their ability to promote the formation of droplets
- Coalescence – Completely disrupt the emulsifiers film and form large droplets that settle faster
- Solid wetting – capacity to water-wet the solids that seat at the interface
- Cost-effective



Phase Separation

PRODUCTION

■ Reverse Emulsion (Water Clarifiers)

Solution

Water produced during the extraction of crude oil often contains valuable quantities of oil dispersed within it that need to be removed before the water can be disposed or re-used. ZECLEAR covers all product types and can be tested onsite in any variation of separation equipment to deliver the best solution by reducing the amount of oil (and sediment) in the produced water to an acceptable level with flocculating properties, such that the concentration of oil-in-water, in the water before over boarding/disposal remain below 10ppm.

Chemistries

Zeconia deploys three basic types of water clarifiers – Polyamines, polymers and polysaccharides – ensuring that water meets discharge requirements while still maximizing recovery from produced fluids.

Product

ZECLEAR series

Segment

Production

Advantages

Lower costs and minimize facility disruption.

■ Activators

Are unique chemistry of Zeconia used to increase the performance of Water Clarifier. They do the work of a catalyst, making it impossible for Zeconia not to proffer solutions to your water related problems. Only very small amounts of Activator (alkaline) are required to alter the performance rate in principle and give the desire result. In general, chemical reactions occur faster in the presence of activator because the activator provides an alternative reaction pathway with a lower activation energy.



Flow Assurance

PRODUCTION

- **Flow Assurance** (ZEC FA)

Solution

Surfactants that provide cleansing by removing paraffin and asphaltene waxes to allow free – flowing of the oil, often used in the rehabilitation and maintenance of older wells

Chemistries

Alcohol ethoxylates

- **Crude Oil Paraffin/wax Inhibition** (ZECOPLEX & ZEC PPD)

Solution

Prevent wax deposition on pipelines and flowlines

Chemistries

Polyalkyl Methacrylate (PAMA), Ethylene Vinyl Acetate (EVA), Maleic – based Polymers, Ethoxylates, Alkylbenzene Sulfonates.



Asset Integrity

PRODUCTION

- **Biocides** (BIOCIDES)

Solution

This formulation checks the growth of Sulphate Reducing Bacteria (SRB) in the produced water, which causes Microbial Induced Corrosion (MIC) in the production facilities.

Chemistries

Polyalkyl Methacrylate (PAMA), Ethylene Vinyl Acetate (EVA), Maleic – based Polymers, Ethoxylates, Alkylbenzene Sulfonates.

- **Corrosion Inhibitors** (ZEC CI)

Solution

To ensure the integrity of the Production Facilities and to avoid unexpected failures.

Chemistries

Alkanolamides, Amine alkoxyate
Amphoacetates and Imidazoline.



Drilling

EXPLORATION

As one of world’s premier drilling fluids companies, Zeconia supply a broad range of proprietary oil drilling chemicals for all your drilling needs. Our solutions are designed to help lower costs and maximize efficiencies.

We can also custom blend chemicals to your exact specifications. Our high-quality specialty chemicals and drilling fluid additives are produced in compliance with all environmental, health, and safety regulations.

Here are some of the drilling fluids we offer:

Viscosifier & Rheology Modifiers

Advance Drilling Fluid (Monoethanolamine, Diethylenetriamine, Triethylenetetramine, Tetraethylenepentamine)

Scale Inhibitors | Downhole Liners | Cement Additives | Defoamers | Fluid Loss Agents

Wetting Agents | Wellbore Cleanup | O2 Scavengers | Corrosion Inhibitors

Emulsifiers | Foamers & Foaming Agents | Swelling Agents

Function	Products
Shale Stabilizer	Sulfonated Asphalt (Equivalent to SOLTEX) Sodium base Potassium base Custom blended Proprietary blended Sulfonated Asphalt
Fluid Loss Control	Resinated Lignite Lignite Powder Modified PGS – (Maize) API Modified PGS – (Rice) API Modified PGS – (Potato) API Modified PGS – (Tapioca) API Gilsonite – (Powder form)

Dispersants & Deflocculants	Caustic Lignite Chrome Lignite Potassium Lignite Chrome Free Deflocculant Chrome Free LignoSulfonate Chrome LignoSulfonate Ferro Chrome LignoSulfonate Amine Treated Lignite – (Organophilic Lignite)	
Lubricants	E. P. Torque Reducer E. P. Lubricant (Silicate base & environment friendly) E. P. Lubricant (Regular) E. B. Lubricant (Ester based) Rig Wash Drilling Detergent Biocide – (Drilling grade AM base) Biocide – (Drilling grade AL base)	
Specialty mud	Biocide AL (Drilling base) Biocide AM (Drilling base) CI (Drilling Corrosion Inhibitor) Defoamer S Defoamer A Absorbing Fibers – (Oil spill on Rig floors and/ Mud Plants) Oxygen Scavenger (Oil / Gas / Water)	
LCM's & Weighing Agents	L. C. Seal (Fibers), Flaked Calcium Carbonate – (Fine, Medium, Coarse) Kwik Seal equiv. Graded Calcium Carbonate – (Fine, Medium, Coarse) Ground Marble – (Fine, Medium, Coarse) Walnut shell – (Fine, Medium, Coarse) Mica – (Fine, Medium, Coarse) Synthetic Graphite	
Spotting Fluid	Spotting Fluid – Weighted Spotting Fluid – Non Weighted Spotting Fluid – Powder form	
(OBM) Oil Based Mud Products	Primary Emulsifier Secondary Emulsifier Wetting Agent Organophilic Clay Organophilic Lignite	
Viscosifiers	Bentonite (API 13-A) Tex CP (Natural Polymer) Xanthan Gum	
Commercial Chemicals	KCL (max. 99% purity) Citric Acid HCl Soda Ash Soda BiCarbonate	CaCl ₂ Caustic Soda Lime

Cementing

EXPLORATION

Your well is only as good as its throughput. Ensure its operating efficiency with Zeconia well completion fluids. Our proprietary drilling and completion fluids reduce the risk of damage to your well, while increasing its productivity.

Whether you need air and water, mud or specialty completion fluids, our quality products can meet your most challenging completion operations. Optimize your performance and cut your costs.

Zeconia offers a range of proven completion chemicals and additives to transform fluid performance in any operating environment. Some of these chemicals are listed below;

Acid Corrosion Inhibitors | Beakers | Clay Stabilizers | Fluid Loss Additives | Foamers
Non-emulsifiers | Demulsifiers | Scale Inhibitors | Scale Dissolvers | Converters Surfactants
Fluoro - surfactants

■ Frac Chemicals

Zeconia has a full range of products and services to accommodate your hydraulic fracking needs.

Here is a partial fracking chemicals list we offer:

- Frac Sands • Friction Reducers • Microbiocides
- Oxygen Scavengers
- Scale Inhibitors • Surfactants

We have access to a broad range of microbiocides and will work with you to select the one that performs the best in your area. We will also ensure that the selected biocides and other chemistries we supply do not interfere with your selected friction reducer.

We can also provide a turn key solution where we supply the chemistry, personnel and equipment to your fracking site, or we can simply provide the chemicals to you.

■ Frac Sand Solution

Our frac sand proppant is of the highest quality raw sands which meets or exceeds all API standards.

We source frac sand for clients typically in two major categories.

Production Companies – Our high-quality sand products meets or exceeds the minimum requirements to complete today's modern shale wells.

Service Companies – Our sand products produce a high-quality product at a competitive price that reduces the wear and tear on your equipment.

We also maintain a full logistics solution which ensures a timely delivery of our products to the desired delivery point.

■ Foamers And Foaming Agents

Solution

Used downhole as a foam stabilizer/wetting agent in hard water, for muds, foam enhancement in foam fracturing and oil displacement

Chemistries

Amphoteric surfactants including capramidopropyl betaines and amine oxides

Product

ZeGo



Stimulation

EXPLORATION

The increased productivity of a well results from new flow channels from which natural gas and oil can be recovered from the targeted formation. To effectively increase the productivity, Zeconia offers a broad portfolio of specialty chemicals, designed to support and enhance the stimulation process.

Our stimulation chemical offerings include discrete products as well as integrated fluid systems, depending on our client's needs. This includes a comprehensive array of both standard and custom-formulated chemicals for every well stimulation challenge.

Stimulation chemicals supplied by Zeconia include a comprehensive array of chemicals for every well stimulating challenge.

Our products include

- Shale inhibitors
- Corrosion inhibitors
- Scale inhibitors
- Biocides
- Wax control
- Defoamers
- Breakers
- Buffers
- Clay control
- Surfactants





Flow Assurance

EXPLORATION

■ Friction Reducer

Solution

Building blocks to make friction reducers for hydraulic fracturing in multiple brine conditions.

Chemistries

Aminofunctional (cationic), methacrylates and methacrylamides

Product

ZeGo

■ Scale Removers

Solution

Used in oilfield service operations to remove scale in wellbore or near wellbore radius.

Chemistries

Peracetic acid

Product

ZEC SR

Segment

Production and Stimulation

■ Viscosity Modifier

Solution

Additive to modify viscoelastic surfactants by in-situ release of acid and alcohol and their reactions.

Chemistries

Orthoformates-acetate-propionates

Product

ZEC VM

Segment

Drilling, Production, Stimulation

■ Flowback Surfactants ■ Cleaning Agents



Gas Processing & Industrial Chemicals

Zeconia supplies Commodity chemicals and products used for Natural Gas Processing or Industrial manufacturing.

■ 2-Ethylhexanol

Applications

Low volatility solvent for specialty oilfield blends.

■ Acids

Zeconia supplies a number of acids used to aid in oil well stimulation, refining petroleum products, or for industrial use.

Acetic Acid

This organic acid is used in oil and gas well stimulation. Less corrosive than HCl. Acetic acid treatments are easier to inhibit or retarded for longer duration treatments.

Hydrochloric Acid

This acid is used in oil and gas well stimulation, especially in carbonate formations. HCl's reaction characteristics enable it to be used in a wide range of treatments.

Sulfuric Acid

This acid is primarily used in petroleum refining and can be used for various purposes.

■ Amines

We offer amines MEA and MDEA as generic solvents for various applications. Please contact us if you are looking for specialty amines for gas sweetening applications.

Monoethanolamine (MEA)

This general use amine can be used in various applications as a corrosion inhibitor, chemical intermediate and used in gas scrubbing.

Methyl Diethanolamine (MDEA)

MDEA is a general use amine that can be used as a solvent for gas scrubbing. It has a low vapour pressure, is resistant to thermal and chemical degradation and has a low reaction temperature with CO₂ and H₂S.

■ Methanol

Methanol is available pure, blended with water, and inhibited. As a world commodity, approximately 40% of methanol produced worldwide is used as an intermediate to product formaldehyde. Less than 1% of world methanol production is used by the oil & gas industry. The oil & gas industry uses methanol as a hydrate inhibitor, and for freeze point depression of specialty chemicals. Pure methanol has an extremely low freeze point, and a low flash point, 11-12 degrees C.

Synonyms MeOH, methyl alcohol, wood alcohol, wood naphtha or wood spirits

Applications Oil & Gas: hydrate inhibition, freeze point depression, blending agent

■ Heat Transfer Fluid

(Dowtherm, Syltherm)

■ Coolants

■ Dehydration

■ Acid Gas Removers

(TriEthylene Glycol TEG, Norkool Distherm Dessicant)

■ Cleaners and Degreasers

■ Drag Reducing Agents (ZEC DR)

Alkyl methacrylates (Hydrophobic)

■ Hexane, Kerosene, Toluene and Xylene

Hexane

Specific Gravity	0.66 @ 20°C
pH	
Flash Point (CC)	-23°C
Solubility	Insoluble

Kerosene

Specific Gravity	0.820
pH	
Flash Point (CC)	38-72°C
Solubility	Insoluble

Toluene

Specific Gravity	0.86
pH	
Flash Point (CC)	7°C
Solubility	0.52 g/L

Xylene

Specific Gravity	0.871
pH	
Flash Point (CC)	25°C
Solubility	Insoluble

■ Isopropyl Alcohol

Isopropyl alcohol is miscible in water, alcohol, ether and chloroform.

Synonyms IPA, 2-propanol, isopropanol, rubbing alcohol.

Applications Commonly used for blending as a chemical intermediate.

■ Methy Ethyl Ketone (MEK)

MEK is an organic compound with the formula $\text{CH}_3\text{C}(\text{O})\text{CH}_2\text{CH}_3$.

Synonyms Butanone, MEK.

Applications MEK is an effective and common solvent. It has similar solvent properties to acetone but boils at a higher temp and has a much slower evaporation rate.



Chemical Refining

We offer highly productive chemical refining technology to our clients at the industry leading prices. These advanced technologies help meet requirements of our customers easily within the stipulated time frame.

- Amine treatment
- Heat transfer fluids (DOWTHERM, Syltherm)
- Waste water treatment
- Compressor Coolants & Lubricants
- Fuel Additives



Industrial Chemicals & Lubricants

EXPLORATION

With a constant synergy with our international sourcing partners below, we procure Chemicals and Lubricants not limited to the list below:

Our Sourcing Partners



- Glycols (TEG, DEG, MEG)
- Xylene
- Rigwash
- Methanol
- Butyl Glycol
- Rust Veto
- Lubricants Engine Oils, Gear Oils, Greases
(Shell Total, Mobil, Castro, etc.)



Improved Water Quality With Reduced Dosage Rate

CASE STUDY

Challenge

A major marginal field operator in South –South, Nigeria experienced issues with the produced water quality before disposal. They also required lower chemical injection rate.

Solution

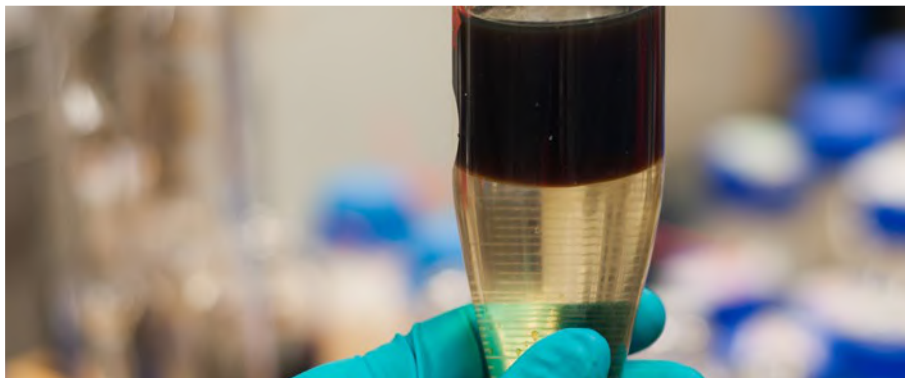
After bottle test and field trial were carried out, ZECLEAR W1006 (WATER CLARIFIER) was selected. ZECLEAR W1006 is a fast reverse emulsion breaker formulated to break water-in-oil emulsions and deliver clean produced water, and it does this while leaving zero residual emulsion in the process separation systems.

Results

Water Clarifier volumes were reduced to about 40 percent. The water quality was greatly improved with very clear water. The ongoing data today shows water-in-oil remains at acceptable levels with very clear water for disposal.

Segment

Production Flowlines and Pipelines





Demulsifiers Ensured Crude Quality In Nigeria's Niger Delta Region

CASE STUDY

Challenge

A heavy-oilfield in Niger Delta, Nigeria was struggling to attain the shipping specifications of her crude due to the complex nature of the hydrocarbon presence. A demulsifier was needed to enable continuous fine-tuning of the export specifications.

Solution

To ensure the problem is solved, Zeconia selected, tested and prequalified ZEC D4225 was injected at the wellheads and into downhole casing. ZEC D4225 was also injected at the inlet of the central production facility

Results

BS&W was maintained below 0.3 percent, which meant that the crude met agreed shipping specifications at 4ppm dosage





Paraffin Inhibitor/Pour Point Depressant - Flow Assurance Solution

CASE STUDY

Challenge

A JV marginal Operator in Niger Delta, Nigeria invited Zeconia to proffer solution to her well 2 and well 3 wax by depressing crude emulsion Pour Point Temperature from 31°C to 5°C

Solution

Zeconia formulated ZECOPLEX to lower the crude viscosity and pour at less than 5°C.

Results

ZECOPLEX 14-302 was deployed after a careful selection for field trials. The crude poured at 2°C at a dosage rate of 25ppm. The crude Pour Point Temperature was maintained at 5°C





Health, Safety & Environment

Zeconia is committed to Health, Safety and Environment (HSE) excellence in all our areas of operations. We adhere to international standards and industry best practices. We strive to balance and integrate economic, environmental and social considerations in our business decisions, guided by our Corporate Sustainability Framework. This covers six key result areas namely, shareholder value, natural resource use, HSE, product stewardship, societal needs and climate change.

Management's Responsibility


The health and safety of every employee of ZECONIA while in service is of importance to the management of the organization. Maintaining a safe workplace is of topmost priority to management and measures have been taken to ensure there are no attendant risks in the immediate working environment. Through management leadership and employee commitment, ZECONIA's operations are carried out with minimal exposure to environmental hazards. With a percentage of our employees being away from the central working office in Lagos and stationed in Port Harcourt, all personnel are trained to comply with the Health, Safety and Environmental Policies in their various stations.

A safe workplace provides for delivery of high quality service. This understanding continues to contribute to management's efforts in providing a morale boosting environment for positive development of our workforce. We have created and strive to maintain a safe working environment thereby preventing workplace injuries. As part of our operational and developmental strategy we will continue to improve our Health and Safety systems.

A key driver for growth...

...enhance operational excellence and maximize the potential of our existing assets.

Recognising technology as a key driver for growth, Zeconia through its technology-driven services pursues strategic development and deployment of technology to further enhance operational excellence and maximise the potential of our existing assets and emerging opportunities. Technology driven services aspires to attain leadership in delivering integrated innovative solutions and projects across Zeconia by anchoring on the following areas:

1 **Competitive Cost** 


Delivering projects at competitive cost, on schedule and with assured operability.

2 **Delivery Advantage** 

Driving category management for cost and delivery advantage to projects and for operational requirements.

3 **Technical Solutions** 

Providing value adding technical solutions and instituting technical governance for operational excellence.

4 **Growth** 

Developing and deploying technology for Zeconia's growth and future positioning.

...leadership in delivering integrated innovative solutions & projects...

Zeconia is fully committed to a periodic and systematic National and international training of all her employees on regular basis so as to enable them perform their duties effectively and efficiently. This is highly prioritized in order to enable employees acquire the ever dynamic skills and knowledge required for a world class servicing company.



Corporate Social Investment

Building the nation

We strive to enrich the lives we touch through various holistic efforts that aim for sustainable long term growth. At Zeconia, we encourage and facilitate long personal and professional development to ensure that availability of a sustainable pool of motivated and knowledge-empowered talents for Zeconia, our partners, host nations and communities where we operate. Our education initiatives include educational and training institutions, education sponsorships




Hunger Project

In conjunction with Kokun Foundation, Zeconia is actively involved in providing food for the less privileged in the society, because we believe in the notion that **food is right for everyone**

Innovation for life.

Contact Us



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Zeconia is a world class servicing company that provides total Offshore and Onshore solutions across the entire Oil & Gas Industry. Our services cover Engineering, Procurement, Project Management, Fabrication/Construction, Installation and Commissioning to project owners and operators, and procurement of wide ranges of Lubricants and Oilfield Chemicals used in Upstream (Production Specialty Chemicals, Drilling, Cementing, Well Completion and Stimulation) and Downstream (crude oil production and its treatment).

Zeconia's Offshore and Onshore solutions are poised with capabilities to execute and manage very complex capital projects principally within the oil and gas industry. Through precision, ethical practices and fiscal responsibility, we are committed to deliver verifiable value to our clients with tailored solutions at minimal cost, reduced risk with utmost attention to safety.

Our Oilfield Chemicals are applied specifically to provide economical cost-effective solutions and to allow increases in productivity, cost reductions and HSE benefits to our clients. At Zeconia, we pride ourselves not only on the import and distribution of Oilfield Chemicals, but together with our Technical Partners we also effectively carry out field tests for specialty chemicals in the field to solve our client's production issues. We are also committed to customer service through continuous evaluation and improvement of our processes, products and services.

We are established with a vision to become the preferred servicing partner to operating companies (OPCOs), National oil Companies (NOCs) and International Oil Companies (IOCs), building on a record of project delivery, quality, and customer satisfaction.

Contact a Zeconia Sales representative for more information.

www.zeconia.com/contact