



OIL & GAS

PRECISION IN CHEMISTRY
FOR EXTREME CONDITIONS



OIL & GAS



OXITENO



OXITENO PRESENCE

GLOBAL REACH
AND FULL
COVERAGE IN
AMERICAS



Continuous investments in technology



Flexibility and focus on customers



Excellence in serving customers



Expertise

#1

Biggest Ethoxylator in the Americas

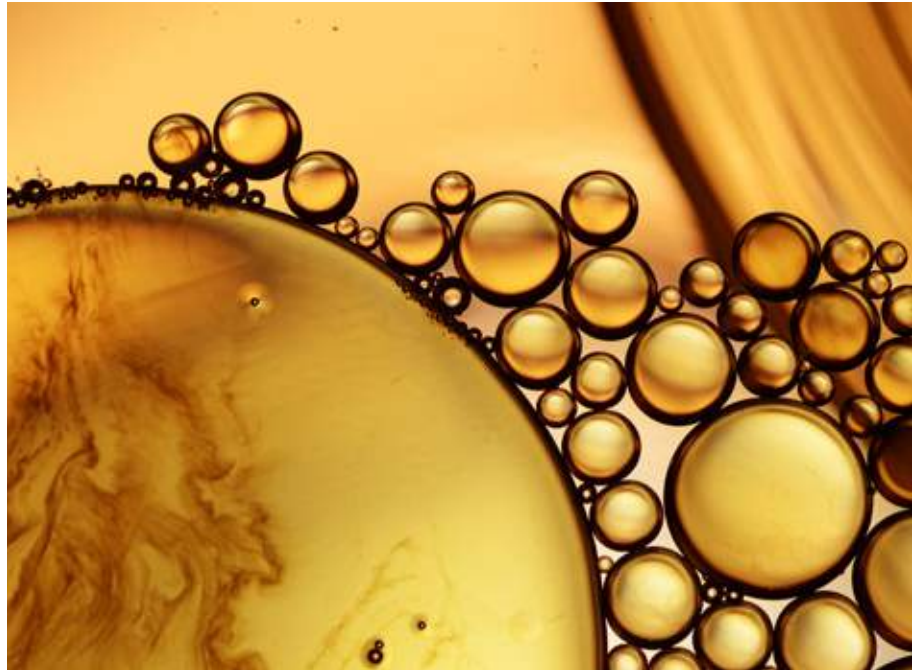


FOR OVER 45 YEARS DEVELOPING SOLUTIONS THAT SUPPORT THE WORLD'S EVOLUTION BY CHEMISTRY

As part of the Grupo Ultra, a major business group in Brazil, the company's heritage is built on being a pioneer. Founded in the 1970s, it was the first company to manufacture ethylene oxide and derivatives in the country.

Today, Oxiteno is a leading multinational in the production of surfactants and specialty chemicals in the Americas. It has 11 industrial units across Brazil, the United States, Mexico and Uruguay, five research and development centers, and eight commercial offices in the Americas, Europe, and Asia.

Its industrial units have a high capacity and the operational excellence to serve customers safely and flexibly. Commercial offices and Research & Development centers around the world provide even more speed in meeting the demands for customized, high-performance solutions that change customers' businesses.

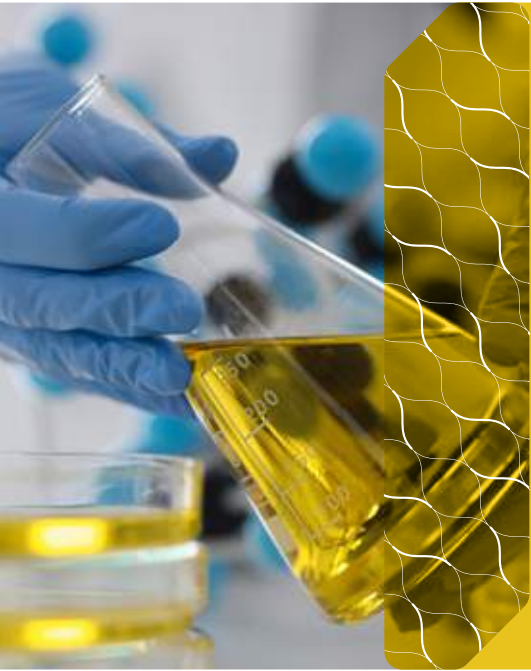


CHEMICAL PROVIDER FOR OIL & GAS INDUSTRY

Oxiteno is committed to the evolution of the Oil and Gas industry and works closely with service companies in the search for cleaner and more efficient technologies. It provides flexibility in production and operational excellence when delivering products promptly according to demand.

Its technological partnerships with academics, universities, science, and technology institutions are critical to providing chemical solutions that meet the challenges in the chain as a whole.

Examples of this are the different technological collaboration agreements entered into with leading institutions, such as the Mexican Petroleum Institute (IMP), Texas A&M University, the Federal University of Rio de Janeiro (UFRJ) and the National Institute of Technology (INT), which enables an exchange of knowledge in the development of new solutions and technologies for all stages of oil and gas exploration and production (E&P).



SOLUTIONS THAT HELP OILFIELD SERVICE COMPANIES OVERCOME A RANGE OF CHALLENGES

Oxiteno supplies precision chemistry to the oil and gas industry. Its innovation platforms allow the development of solutions that meet our customers' needs and have a considerably lower socio-environmental impact.

With professionals dedicated to the development of new solutions, its diversified portfolio includes lubricants, degreasers, solvents for stimulation, emulsion preventers, corrosion inhibitors, demulsifying bases, emulsifying agents, products for gas treatment and solutions for hydraulic fracturing fluids.

The result is a diverse portfolio, with technological differentials, to ensure greater performance in drilling, stimulation, production optimization, and asset integrity. We are also moving forward to the new challenges with our surfactants for Biofuel Industry.

INNOVATION PLATFORMS



DRILLING



STIMULATION



PRODUCTION
OPTIMIZATION



ASSET
INTEGRITY



BIOFUELS



PORTFOLIO OF SOLUTIONS FOR ALL STAGES OF EXPLORATION, STIMULATION AND PRODUCTION

Oxigeno supplies precision chemistry to a market featuring extreme temperatures and pressures. These are high-performance solutions that help service companies face the challenges in every stage of drilling, stimulation, and production, in onshore and offshore operations.

APPLICATION	SOLUTION	DESCRIPTION	FEATURES AND BENEFITS
DRILLING			
BASE OIL	ULTROIL® OE 040	Aromatic-free hydrocarbon based oil	Base oil for drilling fluids and slurries
	EMCAFlex®	Aromatic-free hydrocarbon based oil	Drilling base oil for continuous phase for drilling fluids and slurries
	EMCAPlus®	Aromatic-free hydrocarbon based oil	Drilling base oil for continuous phase for drilling fluids and slurries
EMULSIFIERS	ULTRAFLUID® EM	Fatty acid based surfactant package	Water in oil emulsifier for oil-based and synthetic based drilling fluids
CASING CLEANERS	ULTROIL® WBL	Nonionic surfactant formulation	Casing cleaner for general spacer and flush applications
	ULTROIL® WM 1001	Aromatic-free surfactant formulation	High performance casing cleaner for spacer and flush applications
CLAY CONTROL	EBTEG	Triethylene glycol monobutyl ether	Glycol formulation to prevent clay swelling in water-based fluids
LUBRICANTS	ULTROIL® LB 7400	Nonionic surfactant	Onshore lubricant for water-based drilling fluids
	ULTROIL® LB 8200	Nonionic surfactant	Onshore lubricant for water-based drilling fluids
	ULTROIL® LB 8400	Nonionic surfactant	Onshore Lubricant for water-based drilling fluids
	ULTRAFLUID® LB 8600	Nonionic surfactant	Lubricant for completion fluids
	ULTRAFLUID® LB P10	Fatty acid-based formulation	High performance lubricant for directional drilling
NON-EMULSIFIER SOLUTIONS FOR COMPLETION BRINES	ULTRAWET® 70	BTEX-free nonionic formulation	High performance non-emulsifier for monovalent brines
	ULTRAWET® 80	BTEX-free nonionic formulation	High performance non-emulsifier for monovalent and divalent brines
	ULTRAWET® 110	BTEX/NPE-free nonionic formulation	High performance non-emulsifier for monovalent and divalent brines

APPLICATION	SOLUTION	DESCRIPTION	FEATURES AND BENEFITS
DRILLING			
OTHER DRILLING & COMPLETION FORMULATION ADDITIVES	ALKONAT®	Natural alcohol alkoxyated surfactants	Natural-based emulsifier, wetting agent and surface tension reducer for various formulations
	ALKOSYNT®	Synthetic alcohol alkoxyated surfactants	NPE-free emulsifier, wetting agent and surface tension reducer for various formulations
	ULTRANEX® NP	Alkoxyated nonylphenol surfactants	Emulsifier, wetting agent and surface tension reducer for various formulations
	ALKEST® CSO	Castor oil ethoxylates	Natural-based emulsifier, wetting agent and surface tension reducer for various formulations
	ALKEST® SP	Sorbitan ester surfactants	Natural-based emulsifier, wetting agent and surface tension reducer for various formulations
	ALKEST® TW	Ethoxylated sorbitan ester surfactants	Natural-based emulsifier, wetting agent and surface tension reducer for various formulations
	ULTRARIC®	EO/PO Block copolymers	Anti-foamer agent
STIMULATION			
ANTI-SLUDGE AGENT	LAVREX®	Linear alkylbenzene sulfonic acid	Anti-sludge agent and stimulation performance enhancer for alphaltenic/paraffinic crudes
	ALKOPON® ASL	Linear alkylbenzene sulfonic acid	Anti-sludge agent and stimulation performance enhancer for alphaltenic/paraffinic crudes
FLOWBACK AID SURFACTANTS	ULTRAFRAC® FS P10	Alkoxyated surfactants	Surface tension reducer for fracturing and acidizing fluids
	ALKONAT®	Natural based ethoxylated surfactants	Surface tension reducer for fracturing and acidizing fluids
	ALKOSYNT®	Synthetic-based ethoxylated surfactants	High performance surface tension reducer for fracturing and acidizing fluids
	ULTRAMINA® TA	Alkoxyated tallow amines	Surface tension reducer for fracturing and acidizing fluids
	ALKOMOL®	EO/PO alcohols	Surface tension reducer for fracturing and acidizing fluids
	ALKEST® TW	Ethoxylated sorbitan esters	Surface tension reducer for fracturing and acidizing fluids
	ALKEST® CSO	Castor oil ethoxylates	Natural-based emulsifier, wetting agent and surface tension reducer for various formulations
VISCOELASTIC SOLUTION	ULTRACK VS G10	Zwitterionic Surfactant	Viscoelastic surfactant for acidizing stimulation
MUTUAL SOLVENT	EBMEG	Butylglycol	Mutual solvent to treat the reservoir wettability and enhance fluid compatibility
NON-EMULSIFIER SOLUTIONS FOR FRACTURING AND ACIDIZING	ULTRAWET® 70	BTEX-free nonionic formulation	High performance non-emulsifier for monovalent brines and HCl fluids
	ULTRAWET® 80	BTEX-free nonionic formulation	High performance non-emulsifier for monovalent and divalent brines
	ULTRAWET® 110	BTEX/NPE-free nonionic formulation	High performance non-emulsifier for divalent brines, broken gels and HCl fluids
	ULTROIL® CO 1010	Alkoxyated nonionic resin	High performance additive of non-emulsifier formulations for fracturing and acidizing fluids
	ALKEST® CSO	Ethoxylated castor oil surfactants	Additive of non-emulsifier formulations for fracturing and acidizing fluids
	ULTRARIC®	EO/PO block copolymers	Additive of non-emulsifier formulations for fracturing and acidizing fluids























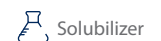
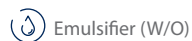
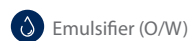
APPLICATION	SOLUTION	DESCRIPTION	FEATURES AND BENEFITS
PRODUCT OPTIMIZATION			
DEHYDRATION OF NATURAL GAS	TEG	Triethylene glycol	Liquid desiccant for water and moisture removal in natural gas dehydration systems
	ULTROIL® EB 1000 series	Alkylphenol alkoxyate resins	Demulsifier bases with dropper functions to increase kinetics and overall separation efficiency
EMULSION BREAKER BASES	ULTROIL® EB 2000 series	EO/PO Block copolymers	Demulsifier bases to enhance interface and water quality
	ULTROIL® EB 3000 series	Alkoxyated polyols	High performance demulsifier bases with hybrid functions
	ULTROIL® EB 4000 series	Alkoxyated amine-based polymers	High performance demulsifier bases with drying capacity to reduce final BS&W
	ULTRANEX® NP	Ethoxylated nonylphenol	Additive to enhance formulation efficiency
	LAVREX®	Linear alkylbenzene sulfonic acid	Anti-sludge agent and performance enhancer for asphaltenic/paraffinic crudes
LIQUID FOAMERS	ALKOPON®	Sodium lauryl sulfates and ether sulfates	General foamer for gas-lift operations
	ULTROIL® FW	Lauryl sultaines and coco beaines	High performance foamers for high pH and temperature conditions
ASSET INTEGRITY			
CORROSION INHIBITOR BASES	ULTROIL® CI 1000 series	Cocoamine ethoxylates	Film-forming corrosion inhibitor for sour streams (H ₂ S)
	ULTROIL® CI 2000 series	Tallow amine ethoxylates	Film-forming corrosion inhibitor for sour streams (H ₂ S)
	ULTROIL® CI 3000 series	Proprietary diamine alkoxyates	Film-forming corrosion inhibitor for sour (H ₂ S) and sweet (CO ₂) streams
AMINE COLUMN CORROSION INHIBITORS	MEA	Monoethanolamine	Gas sweetening reactants for oil refineries
	DEA	Diethanolamine	Gas sweetening reactants for oil refineries
	DEA-W	Diethanolamine mixture	Gas sweetening reactants for oil refineries
H ₂ S SCAVENGER	ULTROIL® SV 070	Triazine	Nitrogenated hydrogen sulfide scavenger

OTHER SOLUTIONS FOR THE OIL & GAS INDUSTRY

Oxiteno supplies precision chemistry to a market featuring extreme temperatures and pressures. These are high-performance solutions that help service companies face the challenges in every stage of drilling, stimulation, and production, in onshore and offshore operations.

SURFACTANTS

		FORM	HLB	FUNCTIONS		
ETHOXYLATED FATTY ALCOHOL						
ALKOSYNT® ID 30	Isodecyl alcohol 3 EO	Liquid	9.1			
ALKOSYNT® ID 60	Isodecyl alcohol 6 EO	Liquid	12.5			
ALKOSYNT® IT 30	Isotridecyl alcohol 3 EO	Liquid	7.9			
ALKOSYNT® IT 60	Isotridecyl alcohol 6 EO	Liquid	11.2			
ALKOSYNT® IT 90	Isotridecyl alcohol 9 EO	Liquid/Paste	13.3			
ALKONAT® L 30	Lauryl alcohol 3 EO	Liquid	8.3			
ALKONAT® L 60	Lauryl alcohol 6 EO	Liquid	11.5			
ALKONAT® L 70	Lauryl alcohol 7 EO	Liquid	12.1			
ALKONAT® L 100	Lauryl alcohol 10 EO	Liquid/Paste	13.9			
ALKONAT® L 100 W 30	Lauryl alcohol 10 EO, 70% in aqueous solution	Liquid/Paste	13.9			





		FORM	HLB	FUNCTIONS			
ETHOXYLATED NONYLPHENOL							
ULTRANEX® NP 40	Nonylphenol 4 EO	Liquid	8.9				
ULTRANEX® NP 95	Nonylphenol 9.5 EO	Liquid	13.0				
ULTRANEX® NP 100	Nonylphenol 10 EO	Liquid	13.3				
ULTRANEX® NP 120	Nonylphenol 12 EO	Clear to cloudy liquid	14.1				
ULTRANEX® NP 300	Nonylphenol 30 EO	Solid	17.1				
ULTRANEX® NP 300 W 30	Nonylphenol 30 EO, 70% in aqueous solution	Solid	17.1				
ULTRANEX® NP 1000	Nonylphenol 100 EO	Solid	19.0				
ULTRANEX® NP 1000 W 30	Nonylphenol 100 EO, 70% in aqueous solution	Solid	19.0				
ETHOXYLATED FATTY ALCOHOL							
ALKONAT® C	Cetyl alcohol 2 to 20 EO	Solid	5.0 to 15.4				
ALKONAT® CE	Cetostearyl alcohol 5 to 20 EO	Solid	10.0 to 15.4				
ALKONAT® E	Stearyl alcohol 2 to 20 EO	Solid	5.0 to 15.4				
ALKONAT® EH	2-Ethylhexanol alcohol 2 EO	Liquid	5.0				
ALKONAT® L	Lauryl alcohol 1 to 23 EO	Paste to liquid	8.3 to 14				
ALKONAT® OC	Oleyl cetyl alcohol 2 to 30 EO	Liquid to solid	5.0 to 16.7				
ETHOXYLATED FATTY AMINE							
ULTRAMINA® CO	Coconut fatty amine 2 to 15 EO	Liquid	6.2 to 15.3				
ULTRAMINA® TA	Tallow fatty amine 2 to 15 EO	Liquid	5.1 to 15.5				

Foaming agent

Emulsifier (O/W)































Emulsifier (W/O)

Wetting agent


Dispersant


Cleaner

Solubilizer

		FORM	HLB	FUNCTIONS		
SORBITAN ESTER						
ALKEST® SP 20	Sorbitan monolaurate	Liquid	8.6			
ALKEST® SP 60	Sorbitan monostearate	Solid	4.7			
ALKEST® SP 80	Sorbitan monooleate	Liquid	4.3			
ETHOXYLATED SORBITAN ESTER						
ALKEST® TW 20	Sorbitan monolaurate 20 EO	Liquid	16.7			
ALKEST® TW 60	Sorbitan monostearate 20 EO	Solid	14.9			
ALKEST® TW 80	Sorbitan monooleate 20 EO	Liquid	15.0			
POLYETHYLENE GLYCOL						
ULTRAPEG®	Polyethylene glycol 200 to 8000	Liquid to solid	NA			
ANIONIC SURFACTANTS						
ALKOPON® N	Sodium lauryl ether sulfate, 28%	Liquid	NA			
ALKOPON® CN	Sodium lauryl ether sulfate, 70%	Liquid	NA			
ALKOPON® NS	Sodium lauryl sulfate, 28%	Liquid	NA			
ALKONIX® SS	Sodium lauryl ether sulfosuccinate	Liquid	NA			
LAVREX®	Linear alkylbenzene sulfonic acid	Liquid	NA			
AMPHOTERIC SURFACTANTS						
NEOMINOX® LA	Lauryldimethylamine oxide	Liquid	NA			
ULTROIL® FW 2050	Lauryl hydroxy sultaine	Liquid	NA			
ULTROIL® FW S40	Cocoamido propyl betaine 30%	Liquid	NA			

 Foaming agent


 Emulsifier (O/W)

 Emulsifier (W/O)

 Wetting agent

 Dispersant

 Cleaner

 Solubilizer



		FORM	HLB	FUNCTIONS		
EOPO BLOCK COPOLYMERS						
ULTRARIC® PE 61	Poloxamer 181	Clear liquid	3			
ULTRARIC® PE 62	Poloxamer 182	Liquid	7,3			
ULTRARIC® PE 104	Poloxamer 334	Solid	8			
ULTRARIC® PE 105	Poloxamer 335	Solid	10			
ULTRARIC® PE 127 F	Poloxamer 407	Solid	22			
ULTRARIC® 5000	Alkoxyated Butanol	Solid	15,9			
ULTRARIC® CSO 200	Alkoxyated Castor Oil	Liquid	-			
EOPO ALCOHOL						
ALKOMOL® E 10	PPG-5 Ceteth-10	Cloudy Liquid	7			
ALKOMOL® L 306	PPG-6 Laureth-3	Cloudy Liquid	5,5			
ALKOMOL® L 405	PPG-5 Laureth-4	Liquid	7			
ALKOMOL® L 408	PPG-8 Laureth-4	Cloudy Liquid	15,6			
ALKOMOL® L 504	PPG-4 Laureth-5	Cloudy Liquid	6,9			
ALKOMOL® L 506	PPG-6 Laureth-5	Cloudy Liquid	6,9			
ALKOMOL® L 603	PPG-3 Laureth-6	Cloudy Liquid	13,9			

Foaming agent

Emulsifier (O/W)












Emulsifier (W/O)

Wetting agent

Dispersant

Cleaner

Solubilizer

		FORM	HLB	FUNCTIONS	
ALKOXYLATED CASTOR OIL					
ALKEST® CSO 50	5 EO Castor Oil	Liquid	3,9		
ALKEST® CSO 150	15 EO Castor Oil	Liquid	9,9		
ALKEST® CSO 200	20 EO Castor Oil	Liquid	11,5		
ALKEST® CSO 300	30 EO Castor Oil	Liquid	12,6		
ALKEST® CSO 400	40 EO Castor Oil	Liquid	13,2		
ALKEST® CSO 540	54 EO Castor Oil	Solid	14,4		



Foaming agent



Emulsifier (O/W)



Emulsifier (W/O)



Wetting agent



Dispersant



Cleaner



Solubilizer



PETROCHEMICALS

		FORM	HLB	FUNCTIONS	
GLYCOLS					
MEG	Monoethyleneglycol	Liquid	NA		
DEG	Diethyleneglycol	Liquid	NA		
TEG	Triethyleneglycol	Liquid	NA		
TTEG	Tetraethyleneglycol	Liquid	NA		
ETHANOLAMINES					
MEA	Monoethanolamine	Liquid	NA		
DEA	Diethanolamine	Liquid	NA		
TEA	Triethanolamine	Liquid	NA		
GLYCOL ETHERS					
ETHYL GLYCOL		Liquid	NA		
ETHYLDIGLYCOL		Liquid	NA		
ETHYLTRIGLYCOL		Liquid	NA		
PROPYLGLYCOL		Liquid	NA		
PROPYLDIGLYCOL		Liquid	NA		
BUTYLGLYCOL		Liquid	NA		
BUTYLDIGLYCOL		Liquid	NA		



Foaming agent



Emulsifier (O/W)



Emulsifier (W/O)



Wetting agent



















Dispersant



Cleaner



Solubilizer

		FORM	HLB	FUNCTIONS	
ACETATES					
ETHYL GLYCOL ACETATE		Liquid	NA		
BUTYL GLYCOL ACETATE		Liquid	NA		
N-PROPYL ACETATE		Liquid	NA		
PROPYL GLYCOL ACETATE		Liquid	NA		
SEC-BUTYL ACETATE		Liquid	NA		
ISOAMYL ACETATE		Liquid	NA		
ALCOHOLS					
ISOAMYL ALCOHOL		Liquid	NA		
SEC-BUTANOL		Liquid	NA		
KETONES					
MEK	Methyl ethyl ketone	Liquid	NA		



Foaming agent



Emulsifier (O/W)



Emulsifier (W/O)



Wetting agent



Dispersant



Cleaner



Solubilizer





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DISCLAIMER

This information is provided in good faith, based on Oxiteno's current knowledge of the subject and is purely indicative. No information, including suggestions for using the products, should preclude experimental testing and verification, which are essential to ensuring the suitability of the products for each specific application. All users must also respect local laws and obtain all the necessary permits. When handling the product, consult the safety data sheet. If you have any questions or additional needs, please contact Oxiteno through our customer service channels.