



DIAPROSIM®

UNE MARQUE DU GROUPE **ALM** INTERNATIONAL

Water quality, our priority

INDUSTRIAL WATER TREATMENT



CERTIFIED PRODUCTS, FRENCH AND EUROPEAN MANUFACTURING

DIAPROSIM® - +33 (0)3 80 97 36 29 / diaprosim@alm-inter.com / www.diaprosim.com

DIAPROSIM®

UNE MARQUE DU GROUPE **ALM** INTERNATIONAL

MORE THAN 60 YEARS OF EXPERIENCE IN INDUSTRIAL WATER TREATMENT

History

- 2010** After having been exclusive distributor of **DIAPROSIM®** products, **ALM INTERNATIONAL S.A.** becomes the owner of the brand and the formulations.
- 2009** Dow Chemical acquires ROHM & HAAS' Chauny site, currently Dow Water & Process Solutions.
- 1995** **ALM INTERNATIONAL** becomes distributor of the **DIAPROSIM®** range for ROHM & HAAS.
- 1962** DIAMOND SHAMROCK and PROSIM become DIA-PROSIM™, products for industrial water treatment manufactured by ROHM & HAAS.



FULL RANGE OF WATER TREATMENT PRODUCTS COMPLIES WITH CURRENT REGULATIONS



CORPORATE SOCIAL RESPONSIBILITY

The Group **ALM** INTERNATIONAL integrates a CSR approach in its practices and exchanges with all of its partners.

The group's companies, and its brand **DIAPROSIM®** affirm their societal commitment and environmental within their businesses and their decision-making processes.



A PERSONALIZED APPROACH

DIAPROSIM® puts at your service an experienced, dynamic and responsive team that ensures you:

- ☑ Diagnosis of the condition and treatment of installations
- ☑ Water analysis (strategic points)
- ☑ The recommendation of adapted solution and treatment
- ☑ The definition or improvement of the pre-treatment
- ☑ The transfer of skills to your qualified personnel by training technicians in the use of products

CERTIFIED PRODUCTS, MADE IN FRANCE

The range **DIAPROSIM®** complies with current regulations *REACH (CE) N°453/2010, CLP(CE) N°1272 / 2008,*

environmentally conscious and ISO9001 and ISO14001 certified.

A WIDE RANGE OF PRODUCTS SUITABLE FOR

- Low, medium and high pressure boiler
- Hot water loop
- Closed, semi-open, open cooling circuit
- Sanitary water, waste water
- Other specific applications

A KNOW-HOW IN MANY SECTORS

Food industry (Brewery, sugar factory...), Energy production, Industry oil and mining, Stationery, Printing, Public service, Transport (maritime, railway...), Chemical industry, ...

RECOMMENDED BY MAJOR BRANDS: Wärtsilä, Man, Caterpillar, ...

DOSAGES AND FORMULATIONS

We define the dosages of our products according to the characteristics of each installation.

We have a team of chemical engineers ensuring a complete and specific expertise for each of our customers' processes, whatever their field of activity and their application.

OUR OBJECTIVES

- ☑ **REDUCTION** of maintenance costs and frequencies
- ☑ **REDUCTION** of consumption
- ☑ **INCREASED** yields
- ☑ **INCREASING** the longevity of installations



DIAPROSIM® AREAS OF EXPERTISE

CLOSED COOLING CIRCUITS

- ☑ **CIRCUIT ADDITIVES ENGINE**

DIAPROSIM® RD11 *Powder*
Multimetal protection *
(absence of aluminum)

DIAPROSIM® RD15 *Liquid*
Multimetal protection *
(absence of aluminum)

DIAPROSIM® RD25 *Liquid*
Multimetal protection *
(of which aluminium)

** Compatible with glycols*
- ☑ **CIRCUIT ADDITIVES INDUSTRIAL**

DIAPROSIM® EC10N *Liquid*
Multimetal protection
(of which aluminium)

DIAPROSIM® ES111RDS *Liquid*
Multimetal protection
(absence of aluminum)

** Compatible with glycols*
- ☑ **ANTIFREEZE PRODUCTS WITH ADDITIVE**

DIAPROSIM® RDH *Liquid*
Concentrated MEG product
to be diluted according to desired
protection (no aluminium)

DIAPROSIM® MPGEL *Liquid*
Concentrated MPG product
to be diluted according
to the protection required

DIAGEL 6N *Liquid*
Concentrated MEG product
to be diluted according to desired
protection (recommended for
aluminum protection).

DIAMIGEL 6N *Liquid*
Ready-to-use MEG (recommended
for aluminum protection)
- ☑ **CURATIVE TREATMENTS**

DIAPROSIM® RD13 *Powder*
Removal of scale deposits

DIAPROSIM® Z520 *Liquid*
Bio-degreaser. Cleaning oil
and grease contaminated circuits

DIAPROSIM® B150 *Liquid*
Silica and iron oxide dispersant

DIAPROSIM® Z550 *Liquid*
Slow de-silting

OPEN AND SEMI-OPEN COOLING CIRCUITS

- ☑ **TREATMENTS ANTI-SCALE / DISPERSANTS**

DIAPROSIM® B113 *Liquid*
Organic dispersant

DIAPROSIM® Z100L *Liquid*
Phosphate-based dispersant
- ☑ **TRAITEMENTS ANTICORROSIONS**

DIAPROSIM® Z51 *Liquid*
Specific copper inhibitor
- ☑ **TREATMENTS MULTIFUNCTIONAL**

DIAPROSIM® Z160 *Liquid*
Anti-Scale / Anti-Corrosion

DIAPROSIM® Z122LN *Liquid*
Anti-Scale / Anti-Corrosion
- ☑ **BIO-DISPERSANTS / DEGREASERS**

DIAPROSIM™ Z520 *Liquid*
Bio-degreaser
- ☑ **BIOCIDES**

DIAPROSIM® Z320 *Liquid*
Biocide (isothiazolone)

DIAPROSIM® Z330N *Liquid*
Biocide (DBNPA)

DIAPROSIM® FB9A3 *Liquid*
Biocide (quaternary ammonium)



Preparation tray

PROBLEMS ENCOUNTERED

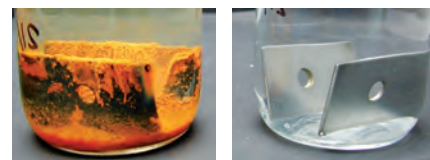
CORROSION

By the effect of oxygen and carbon dioxide dissolved in process water



TEST AND TRIAL

DIAPROSIM® RD25



Demineralized water
T° 20°C (after 40 days)

Demineralized water
+ **DIAPROSIM® RD25**
T° 20°C (after 40 days)

RESULTS

Heat exchange
constant and optimal

- ☑ **REDUCTION**
purge frequencies.
- ☑ **DECREASE**
water consumption
- ☑ **OPTIMIZATION**
cleaning operations
- ☑ **PREVENTION**
of the phenomena of
development of the bio film
and the risk of legionnelle
- ☑ **PREVENTION**
corrosion phenomena
and scaling
- ☑ **INCREASE**
in heat exchange
and production yields

AREAS OF EXPERTISE

BOILERS / HOT WATER LOOPS

- ☑ **PH / ADJUSTMENTS
ALCALINISERS**
 - DIAPROSIM® B115** *Liquid*
pH adjustment and dispersant
 - DIAPROSIM® CIP0** *Liquid*
pH adjustment
- ☑ **OXYGEN REDUCERS**
 - DIAPROSIM® 820** *Liquid*
Oxygen reducer,
low and medium pressure
 - DIAPROSIM® B120** *Liquid*
Oxygen reducer,
High Pressure
- ☑ **TREATMENTS
MULTIFUNCTIONAL**
 - DIAPROSIM® CIP2** *Powder*
Low and medium pressure
 - DIAPROSIM® B116** *Liquid*
Low and medium pressure
 - DIAPROSIM® B108** *Liquid*
Tannin base, use up to 20 Bars
- ☑ **ANTI-SLIP TREATMENT**
 - DIAPROSIM® AP100** *Liquid*
Low and medium-pressure boilers
- ☑ **DISPERSANTS**
 - DIAPROSIM® B150** *Liquid*
Silica and iron oxide dispersant
 - DIAPROSIM® B113** *Liquid*
Dispersant
low and medium pressure
- ☑ **CONDENSATE
NEUTRALIZERS**
 - DIAPROSIM® VN11** *Liquid*
Low and medium boiler pressure
 - DIAPROSIM® VEC8L** *Liquid*
Steam boiler for use Food
- ☑ **APPLICATIONS SPECIFIC**
 - DIAPROSIM® DPL50** *Liquid*
Sanitary water anti-corrosion
 - DIAPROSIM™ B113** *Liquid*
Seawater evaporator dispersant

SUGARS

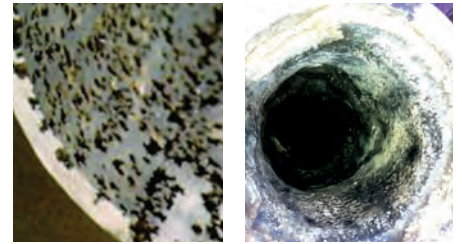
Thanks to its experience in the sugar industry, **DIAPROSIM®** offers you a range of **FDA Approved** products to guarantee and maintain your installations and increase your yields.

- ☑ **TREATMENT OF EVAPORATORS**
 - DIAPROSIM® Z605S** - Scale inhibitor
 - DIAPROSIM® Z610** - Additive for alkaline cleaning of evaporators
 - DIAPROSIM® RD13** - Acid cleaning of evaporators
- ☑ **TREATMENT MILLS AND DECANTERS**
 - DIAPROSIM® AB13** *Biocide*
 - SANITANT OA** *Biocide*
 - DIAPROSIM® FOA 100S** *Defoamer*
 - ALM FLO 40** *Flocculant*

RESULTS

- ☑ **INCREASE** the duration of the production cycles
- ☑ **REDUCTION** sugar losses
- ☑ **IMPROVEMENT** from the decantation

PROBLEMS ENCOUNTERED



CORROSION

SCALING

RESULTS

Heat exchange
constant and optimal

- ☑ **REDUCTION**
purge frequencies.
- ☑ **DECREASE**
water consumption
- ☑ **PREVENTION**
scaling phenomena
and pipe clogging
- ☑ **DECREASE**
frequency of operations
maintenance
- ☑ **INCREASE**
production yields



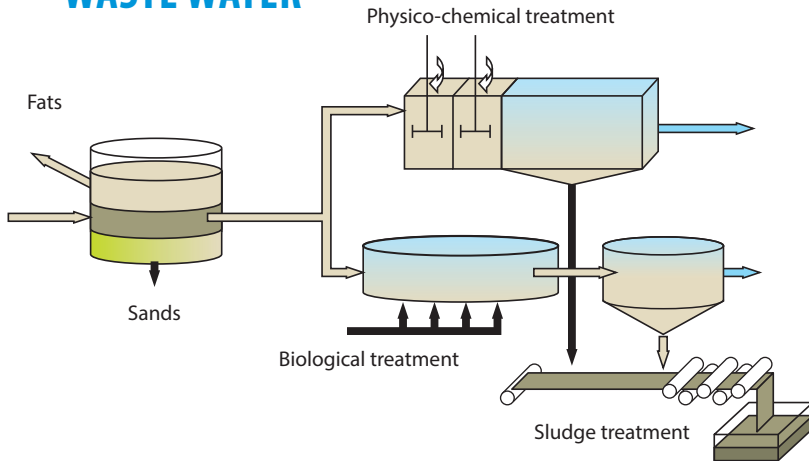
Hot water loop



Sugar refining

DIAPROSIM® AREAS OF EXPERTISE

WASTE WATER



COMPLETE SOLUTIONS

DIAPROSIM® offers complete waste water treatment solutions adapted to your needs thanks to its partnerships with waste water treatment professionals.

A wide range of products is available for wastewater treatment, in order to advise you as well as possible tests on your effluents must be carried out on site for a proposal adapted to your needs.

- ☑ **Physico-chemical treatment**
- ☑ **Biological Treatment**

EQUIPMENT AND LABORATORY PRODUCTS

LABORATORY PRODUCTS

- ☑ **LABORATORY REAGENTS**
All water analyses (TA, TAC, TH, Cl-, etc.)
- ☑ **GLASSWARE AND ACCESSORIES**
Beakers (all types), burettes, graduated test tubes, vials, Petri dishes
- ☑ **DEVICES AND INSTRUMENTATION**
Balances, conductivity meters, ovens, field flocculators (Jar tests)
- ☑ **ANALYSIS KITS**
Alkalinity TA/TAC, chlorides, DEHA, total hardness TH, hydrazine
- ☑ **PORTABLE BRIEFCASES**
Professional multi-parameter analysis kit for cooling tower, sewage treatment plant, etc.

DOSING EQUIPMENT

- ☑ **PREPARATION TRAYS**
All volumes
- ☑ **DOSING PUMPS**
All pressures, all flow rates, ATEX zones, skid



Water pretreatment unit



PRETREATMENT AND POTABILIZATION

DIAPROSIM® offers, beyond its range of water treatment products, all the equipment necessary for the implementation of the treatment and its monitoring.

- » Diagnosis of pretreatment installations: Filtration, softener, reverse osmosis...
- » Driving assistance
- » Recommendation of suitable cleaning product
- » Study and proposal of water purification solution

EQUIPMENT

SOFTENER

Elimination of water hardness (calcium, magnesium)

DEMINERALIZATION UNIT

Reduction or elimination of mineral salts, production of demineralized water

SAND FILTER

Disposal of suspended matter

ACTIVE CHARCOAL FILTER

Chlorine removal

ULTRAFILTRATION MODULE

Removal of high molecular weight particles (size > 1 nm), water disinfection

DISINFECTION / UV STERILIZATION UNIT

UV rays are used for their germicidal and bactericidal action in the disinfection of water

CONSUMABLES

MINERALITY / NEUTRALITY

Neutralization of water, pH adjustment

ION EXCHANGE RESINS

Drinking water treatment, industrial water treatment, mixed beds

MEMBRANES

All types

SILEX

All particle sizes

ACTIVE COAL

Drinking and industrial water treatment

CARTRIDGES

Coiled, heat-welded, activated carbon cartridges

DIAPROSIM™ RO SERIES

Membrane treatment and cleaning

DAIPROSIM PRODUCT FOR OSMOSIS SYSTEMS

RO-400 - Scale inhibitor

RO-113 - Scale inhibitor

RO-A&B - Cleaning of membranes

SANITANT OA - Cleaner, disinfectant of resins and filters



DIAPROSIM®

www.diaprosim.com

www.alm-inter.com

www.alm.group





GRUPE **ALM** INTERNATIONAL

PRODUITS • SOLUTIONS • INNOVATIONS • SERVICES

Spécialiste du marché africain depuis 1979

DIAPROSIM®

Water quality, our priority

DISTRIBUTORS AND PRESENCE



DIAPROSIM®

13 avenue du Général Mazillier, 21140 Semur-en-Auxois - FRANCE

Tél. : +33 (0)3 80 97 36 29 / diaprosim@alm-inter.com

www.diaprosim.com :: www.alm.group

