# WATER TREATMENT PRODUCTS



# derypol

We make polymers, we take care of the environment and the people



"We make polymers, we take care of the environment and the people"

"At Derypol, we work hard to detect market needs, especially polymers for water treatment, and to research and develop products to meet these needs under strict quality control."

"Our concern for the environment is our main goal; target and promote products to solve environmental problems, using green and sustainable products and technologies. It is our contribution to take care of the environment."

Our range of products for water treatment is the result of our commitment to innovate and use advanced technologies for the development of specialized and efficient products. All our products are the result of extensive research and are made according to the most demanding criteria and quality.

"People are our most valuable assets. Health care is one of our main priorities. Safety is part of our DNA."

Mr. Guillem Solé General Manager





Sistema de Gestión ISO 9001:2015 ISO 14001:2015 ISO 45001:2018



www.tuv.com ID 9108635915

### **CONTENTS**

- **4** Introduction: Basic Concepts
- **6** COAGULANTS
  - Synthetic coagulants
  - Specific coagulants
  - Special blends
  - Vegetable coagulants
- 9 Products for DRINKING WATER APPLICATIONS
- **10 FLOCCULANTS** 
  - Water Dispersion flocculants (HIMOLOC Technology)
  - Emulsion flocculants (solvent based)
  - Powder flocculants

#### **17 AUXILIARY REAGENTS**

- Defoamers
- Multifunctional Products
- 19 R&D Department and Application Laboratory

# **INTRODUCTION**

Water is the most precious natural resource. Its scarcity and pollution is becoming an increasingly serious problem. The major source of this pollution comes from domestic and industrial use and its disposal as waste. As water is an indispensable basic food for an advanced society and necessary for economic and industrial development, the availability of clean water is universally recognized as a mark of civilization. This universal concern for water quality and a more sustainable environment has led in recent years to a collective effort to protect and ration this precious treasure.

In this context, Derypol has one of the widest ranges of products on the market for water treatment which includes, among others, flocculant polymers and synthetic coagulants. In addition, our team of experienced water treatment specialists strives every day to satisfy the particular needs of each of our clients. This is our conviction; and our mission is to protect the environment while providing the best service to our customers.



#### **Basic concepts**

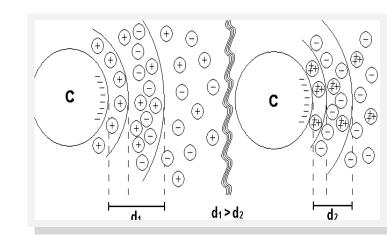
**Coagulation** and **flocculation** are two stages of the water purification process. Both steps can be summarized as a process in which small colloidal particles combine to form larger particles called flocs. These have a specific weight that differs slightly from water, allowing them to be separated by physical means (decantation, flotation, filtration, ...).



#### **Coagulation Stage**

Coagulation refers to the process of destabilization of suspended colloidal matter. These suspended particles naturally maintain a balance of positive and negative charges that keep them separated in a stable manner. By breaking this equilibrium, these colloids can be coagulated.

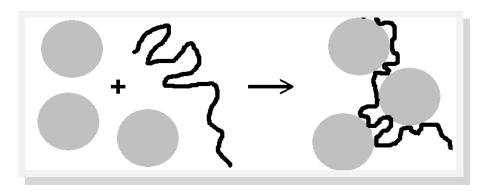
It is very important to take into account the dose of coagulant that is added, since an excess can cause the re-stabilization of the colloidal matter due to the oversaturation of the surface charge of the particles, which would complicate the coagulation.



#### **Flocculation Stage**

Flocculation refers to the dynamic processes that take place in the aqueous environment, where coagulated particles come into contact forming flocs.

This flocculation occurs through the formation of chemical bonds between two or more particles. The flocs formed in this way are soft and porous three-dimensional structures that have a specific weight that differs slightly from that of water, thus allowing them to be separated by physical means (decantation, flotation, filtration, ...).



# **COAGULANTS**

#### **SYNTHETIC COAGULANTS**

#### **Hyfloc Series**

Synthetic or organic coagulants have the ability to partially or totally replace classic coagulants of mineral origin (inorganic). They are effective in a wide range of pH without modifying it, thus reducing the required dose of alkaline reagents (bases) in the coagulation process (sodium hydroxide, lime,...) Comparing them with inorganic ones, they reduce the production of generated sludge improving and optimizing the subsequent dehydration of the same.

Its use is also common in the processes of secondary decantation with biological sludge (activated sludge), favoring the rapid sedimentation of the sludge and respecting the bacterial flora.

	Appearance	Density	Viscosity	рН	
C410	Translucent Yellowish liquid	1,1 - 1,2 g/cm <sup>3</sup>	400 - 1500 ср	2,5 - 6,0	
C820	Colorless to Yellow liquid	1,1 - 1,2 g/cm <sup>3</sup>	3500 - 6000 cp	4,0 - 6,0	
K220	Clear liquid	1 - 1,2 g/cm <sup>3</sup>	200 - 600 ср	5,0 - 7,0	
K240	Colorless Translucent liquid	~ 1,1 g/cm <sup>3</sup>	8000 - 12000 cp	5,0 - 7,0	
K833	Colorless to translucent amber liquid	~ 1,0 g/cm <sup>3</sup>	<15000 cp	5,0 - 7,0	



#### **SPECIFIC COAGULANTS**

#### **Hyfloc Series**

Derypol adapts to the needs of each client. Therefore, we have a wide range of specific coagulants for specific applications that help to remove different contaminants.

They can work alone or combined with other standard products used in water treatment.



	Application	Appearance	Density	Viscosity	рН
DTC681	Metal Removal	Yellow-Greenish liquid	~ 1,2 g/cm <sup>3</sup>	<100 cp	~ 10,0
FL7	Fluor Removal	Yellowish liquid	1,3 - 1,5 g/cm <sup>3</sup>	<100 cp	0 - 2,0
RJ166	Color Removal	Colorless to Yellowish liquid	~ 1,2 g/cm <sup>3</sup>	<750 cp	2,5 - 6,0

#### **SPECIAL MIXURES**

#### **Hyfloc Series**

In order to provide the best possible service to the customer, Derypol has developed a series of special mixtures of coagulants, which combine the properties of various coagulants.

	Appearance	Density	Viscosity	рН
CE289	Transparent Greenish liquid	~ 1,4 g/cm <sup>3</sup>	<150 cp	0,5 - 1,5
AC80	Yellowish liquid	~ 1,3 g/cm <sup>3</sup>	<1000 cp	0,5 - 1,5
AC50	Yellowish liquid	~ 1,3 g/cm <sup>3</sup>	<2500 cp	1,0 - 3,0
AC9	Yellowish liquid	~ 1,4 g/cm <sup>3</sup>	<150 cp	0,5 - 1,5
AK940	Yellowish Transparent liquid	~ 1,3 g/cm <sup>3</sup>	<150 cp	0,5 - 2,0
AK840	Yellowish Transparent liquid	~ 1,3 g/cm <sup>3</sup>	<300 cp	0,5 - 1,5

#### **VEGETABLE COAGULANTS**

#### **Hygreen Series**

The products of the Hygreen series were born with the aim of meeting the increasingly growing need for renewable, natural and environmentally friendly products. The aim of these products is to improve the performance of the treatments, reducing the environmental impact and the general costs derived from the same treatment.

They are cationic organic vegetable polymers (based on quaternized tannins), low molecular weight and easy dissolution or direct application and do not alter the pH or the conductivity of the water, performing in a wide range of pH and reducing the volume of sludge generated.

GT25LF is the product with the lowest formaldehyde content in the market.

	Appearance	Density	Viscosity	рН	
GT25	Brownish liquid	~ 1,1 g/cm <sup>3</sup>	< 10 cp	1,3 - 2,3	
HT20	Brownish liquid	~ 1,1 g/cm <sup>3</sup>	< 10 cp	1,3 - 2,3	
KT2533	Viscous Brownish liquid	1,0 - 1,1 g/cm3	<7000 cp	2,1 - 3,0	
GT25LF	Brownish liquid	~ 1,1 gr/cm³	< 25 cp	1,3 - 2,3 1,3 - 2,3 5,0—7,0	
GT27	Dark Brownish liquid	~ 1,1 gr/cm³	< 25 cp <4000 cp		
VIC00	Dark Brownish liquid	~ 1,1 gr/cm <sup>3</sup>			
HT72	Dark Brownish liquid	~ 1,1 gr/cm <sup>3</sup>	< 20 cp	1,3 - 2,3	
KV2557	Dark Brownish liquid ~ 1,1 gr/cm <sup>3</sup>		<6000 cp	4,0 - 5,0	



## **DRINKING WATER PRODUCTS**

The new legal requirements for the treatment of water intended for human consumption have given rise to a new generation of products that allow maximum efficiency to be obtained by complying with the strictest regulations.

#### **Hypol DW Series**

Polidadmacs of different Molecular Weight They are acrylamide-free and comply with the requirements of the UNE:EN 1408:2008 standard, with regard to products used in the treatment of water intended for human consumption. Some of them have such a high Molecular Weight that they can successfully replace the use of classic polyacrylamides, with the advantage that, combined with aluminum salts, they leave a lower residual content of this metal compared to any other standard product.

	Appearance	Density	рН	Viscosity	Molecular Weight
DW205	Clear transparent to Yellowish liquid	~ 1,2 g/cm <sup>3</sup>	4,0 - 7,0	<3000 cp	Very Low
DW211	Clear transparent liquid	~ 1,2 g/cm <sup>3</sup>	4,0 - 7,0	500 - 2000 cp	Medium
DW217	Clear transparent to amber liquid	~ 1,1 g/cm <sup>3</sup>	4,0 - 7,0	4000 - 15000 ср	High

#### **Himoloc DW Series**

Polyacrylamides with a residual monomer (acrylamide) content below the standard so that they can be used in highly efficient doses in compliance with current regulations (maximum residual acrylamide of 0.1  $\mu$ g/L in the treated water)

	Appearance	Density	рН	Viscosity	Molecular Weight
DW1032	White milky liquid	~ 1,2 g/cm <sup>3</sup>	3,0 - 4,5	<1500 cP	Very High
DW7135	White milky liquid	~ 1,2 g/cm <sup>3</sup>	4,0 - 6,0	<1000 cP	Very High

#### **Hynat DW Series**

Modified potato starches to be used in water purification processes, complying with the UNE:EN 1406:1998 standard. They can effectively replace traditional polyacrylamides.

	lonicity	Appearance	Bulk Density	pH Solution	Viscosity @ 5,0%
DW872	Cationic	Powder with White flakes	~ 0,3 g/cm <sup>3</sup>	7,0 - 9,0	300 - 1200 ср
DW771	Anionic	Powder with White flakes	~ 0,3 g/cm <sup>3</sup>	10,0 - 12,5	300 - 1200 ср

## **FLOCCULANTS**

#### WATER DISPERSIONS (EXCLUSIVE TECHNOLOGY)

The flagship of Derypol products are the water dispersion flocculants from the **Himoloc Technology.** They are polymers free of solvents and surfactants and there is even a series free of acrylamide.

Their versatile monomeric composition, the great ease of preparation, their high efficiency in many operations and the fact that they are the most sustainable technology with the Environment... make them unique in the market.



#### **Himoloc DR Series**

High Molecular Weight CATIONIC polyacrylamides containing the special Derypol monomer (BZQ) to separate fats and oils, especially in flotation processes.

	Appearance	Density	Viscosity	рН	Catlonicity	Molecular Weight
DR2200	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<1000 cp	3,0 - 4,5	Very Low	High
DR2500	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<400 cp	3,0 - 4,1	Low	High
DR525	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<1500 cp	3.0 - 4.5	Low	High
DR523	OR523 White milky liquid	~ 1,2 g/cm <sup>3</sup>	<1500 cp	3,0 - 4,5	Medium	High
DR3000	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<400 cp	3,0 - 4,1	Medium	High
DR35	White milky liquid	~ 1,2 g/cm3	<400 cp	3,5 - 4,5	Medium	High
DR6020	White milky liquid	~ 1,2 g/cm3	<200 cp	3,0 - 5,0	High	High
DR4000	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<500 cp	3,0 - 4,1	Very High	High
DR524	White milky liquid	~ 1,2 g/cm3	<2500 cp	3,0 - 5,0	Very High	High
DR80	White milky liquid	~ 1,2 g/cm3	<600 cp	3,0 - 4,1	Very High	High

#### **Himoloc TG Series**

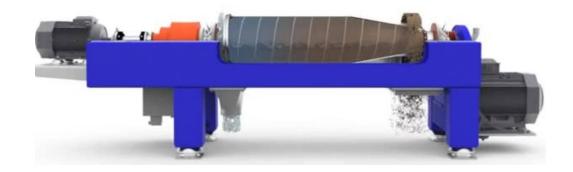
Very High Molecuar Weight CATIONIC polyacrylamides. Especially used in physical-chemical treatments and in sludge dewatering processes by centrifuges and screw presses.

	Appearance	Density	Viscosity	рН	Catlonicity	Molecular Weight
TG325	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<1500 cp	3,0 - 4,2	Low	Very High
TG22	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<5000 cp	3,5 - 5,5	Low	Very High
TG992 SIM	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<3000 cp	3,0 - 4,2	Low	Very High
TG841 SIM	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<3500 cp	3,0 - 4,5	Low	Very High
TG971	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	3,5 - 4,5	Low	Very High
TG30	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<1000 cp	3,0 - 4,2	Medium	Very High
TG823	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	3,0 - 5,0	Medium	Very High
TG995	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<3000 cp	3,0 - 6,0	Medium	Very High
TG60	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2000 cp	3,0 - 4,5	High	Very High
TG998	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2000 cp	3,5 - 5,5	Very High	Very High

#### **Himoloc TX Series**

High Molecular Weight and Cross-linked CATIONIC Polyacrylamides to increase sludge dryness in sludge dewatering systems, especially high speed centrifuges, obtaining solvent and surfactant free sludge, drastically reducing the emission of volatiles (VOC) into the air in Thermal Dryers and complying with regulations to use the final sludge for agricultural or land filling purposes.

	Appearance	Density	Viscosity	Catlonicity	Crosslinking degree
TX950	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	Medium	Very High
TX9550	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	Medium	Medium-High
TX7360	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	Medium	Medium
ТХ980	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2000 cp	Very High	Very High
TX9880	White milky liquid	~ 1,2 g/cm <sup>3</sup>	<2500 cp	Very High	Medium-High



#### Himoloc GO/GA Series

High Molecular Weight ANIONIC and NON-IONIC polyacrylamides.

Universal flocculants with great affinity to separate suspended solids.

Some of them contain AMPS monomer performing in a wider pH range, improving their resistance to hydrolysis and facilitate their dissolution.

	Appearance	Density	Viscosity	рН	Anlonicity	Molecular Weight
GO2010	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<3000 cp	3,0 - 5,0	Low	Very High
GO2030	White milky liquid	quid ~ 1,20 g/cm <sup>3</sup>	<2000 cp	3,0 - 5,0	Medium	Very High
GA8713	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<100 cp	3,0 - 6,0	Medium	High
G07130	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1000 cp	4,0 - 6,0	Medium	Very High
GO115	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1000 cp	4,0 - 6,0	Medium	Very High
GO8230	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1500 cp	4,0 - 6,0	Medium	Very High
GO5077	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1000 cp	4,5 - 5,5	Very High	Very High
GO2000	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<2000 cp	5,5 - 6,5	NON Ionic	High



#### **Himoloc ZW Series**

High Molecular Weight Amphoteric Polyacrylamides specially used in Physical-Chemical Treatments with lack of homogenization or where the quality of the residual water changes is frequent.

Special synergy with the HYGREEN series of coagulants (tannin-based vegetable coagulants).

Although these products have been recently developed, they are already successfully used in the dewatering of sludge in filter presses (avoiding the clogging of the fabrics) and in the waste water treatment in many industrial fields, especially when the oil and fat content is high.

	Appearance	Density	Viscosity	рН	Catlonicity	Molecular Weight
ZW111	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1500 cp	3,0 - 5,0	Low	High
ZW322	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1500 cp	2,5 - 4,5	Medium	High

#### Himoloc DF y AFC (acrylamide free) Series

High Molecular Weight acrylamide free Cationics polymers.

Used in treatments or processes where strong cationic demand is required and/or where acrylamide-free processes are necessary.



	Appearance	Density	Viscosity	рН	Catlonicity	Molecular Weight
DF100	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<3000 cp	4,0 - 6,0	100%	High
AFC80	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<3000 cp	3,0 - 5,0	High	High
AFA40	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<2000 cp	3,0 - 5,5	Medium	High

#### **Himoloc AD500**

Easy to apply ANIONIC polyacrylamide, which provides a protective film over the applied material without affecting its properties. Especially used for Dust Control (Antidust) in applications such as Mining, Civil Works, Soil Fixing and even in Agriculture (Hydroseeding).

	Appearance	Density	Viscosity	рН	Anlonicity	Molecular Weight
AD500	White milky liquid	~ 1,20 g/cm <sup>3</sup>	<1500 cp	2,0 - 4,0	Anionic	Very High



#### **EMULSION FLOCCULANTS (OIL BASED)**

Derypol has a wide range of solvent based emulsion liquid flocculants with different characteristics (Ionicity, cross-linking, etc.) to cover the different applications of Wastewater and Sludge Treatment.

#### **Hyfloc FIC Series**

Cationic linear emulsion flocculants with a wide range of cationic charge are useful in many applications, mainly in Physical-Chemical Treatments.

	Appearance	Density	Viscosity	Catlonicity	Molecular Weight
FIC100	Clear whitish liquid	~ 1,04 g/cm <sup>3</sup>	300 - 3500 cp	Low	High
FIC300	Opaque whitish liquid	~ 1,02 g/cm <sup>3</sup>	500 - 2000 cp	Medium	High
FIC850	Opaque whitish liquid	~ 1,04 g/cm <sup>3</sup>	500 - 2500 cp	High	High

Cationic cross-linked emulsion flocculants have their main application in the thickening and dewatering of sludge, either through centrifuges, filter presses, dynamic thickeners, etc. Their degree of reticulation allows them to form very resistant flocs while their lower molecular weight decreases the clogging of fabrics. The FIC9800, due to its degree of reticulation and catlonicity, is unique in the market, being the only solution to dewater very complicated sludge.

	Appearance	Density	Viscosity	Catlonicity	Crosslinking Degreee
FIC9700	Opaque whitish liquid	~ 1,03 g/cm <sup>3</sup>	500 - 2000 ср	Medium- High	High
FIC59E	Opaque whitish liquid	~ 1,03 g/cm <sup>3</sup>	500 - 2000 ср	Medium- High	High
FIX9535	Opaque whitish liquid	~ 1,10 g/cm <sup>3</sup>	<3500 cp	Medium - High	High
FIC9800	Opaque whitish liquid	~ 1,05 g/cm <sup>3</sup>	<3000 cp	High	High
FIC9900	Opaque whitish liquid	~ 1,04 g/cm <sup>3</sup>	350 - 2000 ср	High	High

#### **Hyfloc LD Series**

The anionic emulsion flocculants are generally used in physical-chemical processes to remove suspended matter in physical-chemical treatments in different industries such as textile, paint, tanning, food, metallurgical, petrochemical and others.

	Appearance	Density	Viscosity	Anlonicity	Molecular Weight
LD1	Opaque whitish liquid	~ 1,03 g/cm <sup>3</sup>	300 - 2000 ср	High	High

#### **POWDER FLOCCULANTS**

Derypol also has a wide range of powder flocculants with different characteristics to adapt to the different conditions of Wastewater and Sludge Treatment.

#### **Hyfloc XT Series**

Cationic XT series powder flocculants have a high molecular weight and are especially recommended for sludge dewatering applications.

	Appearance	Bulk Density	Viscosity @ 0,3%	Cationicity	Molecular Weight
XT343	White granular powder	~ 0,80 g/cm <sup>3</sup>	100 - 250 ср	Very Low	Very High
XT393	White granular powder	~ 0,80 g/cm <sup>3</sup>	150 - 300 ср	Low	Very High
XT543	White granular powder	~ 0,80 g/cm <sup>3</sup>	150 - 300 ср	Medium	Very High
XT154	White granular powder	~ 0,80 g/cm <sup>3</sup>	200 - 300 ср	Medium	Very High
XT653	White granular powder	~ 0,80 g/cm <sup>3</sup>	150 - 350 cp	High	Very High
XT165	White granular powder	~ 0,80 g/cm <sup>3</sup>	250 - 350 ср	High	Very High

#### **Hyfloc SS Series**

High Molecular Weight Anionic powder flocculants are especially recommended for Physical-Chemical Treatment of wastewater where liquid-solid separation is performed by decantation.

	Appearance	Bulk Density	Viscosity @ 0,1%	Anionicity	Molecular Weight
SS140	White granular powder	~ 0,80 g/cm <sup>3</sup>	125-175 cp	Medium	Very High
SS144	White granular powder	~ 0,80 g/cm <sup>3</sup>	125-175 cp	Medium	Very High



## **AUXILIARY REAGENTS**

In addition to coagulants and flocculants used in water treatment, there are other products that are often essential to operate treatment plants. With these auxiliary reagents it is possible to solve operational and technical problems in a profitable and effective way.

#### **Antiescum Series**

Derypol has a series of <u>defoamers</u> of universal use in a great number of processes in industries such as: waste water and drinking water, paper, textile, paints, chemical industry, etc.

They are products of easy handling and dosage that can act as antifoam, inhibiting the formation of foam, and as defoamers, eliminating the already formed foam.

	Appearance	Density	Viscosity
BS175	Opaque white liquid	~ 1,00 g/cm <sup>3</sup>	450 - 2000 cp
DB79	Yellowish transparent liquid	~ 0,85 g/cm <sup>3</sup>	<50 cp
BS117DW	Whitish liquid	~ 0,95 g/cm <sup>3</sup>	<1500 cp
DB511SF	Milky white liquid	~ 1,05 g/cm <sup>3</sup>	<150 cp

#### **Hyfloc V Series**

Multi-functional solid products are products designed to treat low volumes of wastewater in a simple and effective way and without requiring large investments in treatment equipment.

In their formulation they contain coagulants, flocculants and pH regulating reagents, so that the product can be adapted to a wide variety of wastewater conditions.

They are designed to treat waste water through discontinuous or batch processes and do not require previous preparation, being applied directly to the effluent to be treated.

	Appearance	lonicity	Sólidos
V20	Polvo gris	Anionic	> 88%
V21C	Polvo marrón	Cationic	> 88%





# **R&D AND APPLICATION LAB**

Innovation and development of new products has always been the driving force that has made our company one of the most pioneering in the field of water-soluble flocculants and polymers.

The main factors for the success of the <u>R&D Department</u> are the interdisciplinary collaboration and the permanent exchange of knowledge and experiences. The experience and close cooperation with the different areas of the company provide a knowledge that makes us a leader manufacturing aqueous dispersion flocculants and a highly sought-after partner for our customers.

Since the department started in 2001, numerous different innovation projects have been developed, many of which have been scaled up to manufacturing plants and already form part of Derypol's product range, representing more than 80% of our current sales.

Another index that demonstrates the importance of this department and its continuous improvement is the <u>Vitality Index</u> (percentage of product sales developed in the last 5 years) which is almost 20%, being the highest of similar companies in the market and which shows how active and alive the company is. At Derypol, we are certain that our research today is the basis for future success.



In our <u>Application Lab</u>, the most sophisticated analytical methods and instrumentation are available to perform customized and specific studies and analyses for most of the markets where our products are applied. These studies are carried out by specialized technicians with years of experience, always ready to solve the problems raised by customers and in close collaboration with our technical sales staff.

In the Water Treatment area, the lab department receives a multitude of real samples of water and sludge daily , where current treatments are carefully studied by our technicians and solved the best way, in order to carry it out by our team of commercial technicians on an industrial scale with the maximum guarantee of success.

# DERYPOL WATER TREATMENT APPLICATION POLYMERS

Industry	Source	Treatment
Industrial and Municipal Wastewater	Primary Effluents Secondary Effluents Tertiary Sludge	Decanting / Flotation Sludge dewatering
Drinking or industrial water	Rivers, lakes or reservoirs Groundwater Sludge generated in the treatment	Decanting / Flotation Sludge dewatering
Food Industry	Citrus fruit Dairy and derivatives Meat Canned food (fish, vegetables, fruits) Sugar Fats Pre-cooked food Drinks	Decanting / Flotation Sludge dewatering
Pulp&Paper	Retention and Drainage Fiber recovery Green Liquor Treatment Wastewater and Sludge Treatment	Machine (Wet section) Decanting / Flotation Sludge dewatering
Mining	Coal Copper Zinc Uranium Gold Aluminum Nickel	Decanting / Flotation Sludge dewatering Dust Control Pellet Training
Iron and steel	Smelting furnaces Lamination Aluminum Liquor	Decanting / Flotation Sludge dewatering
Aggregates and Quarries	Sand wash Concentrated	Decanting / Flotation Sludge dewatering Dust Control
Chemical Industry	Brine Fine Chemistry Latex and plastic manufacturing	Decanting / Flotation Sludge dewatering
Automotive Industry	Painting Booths Water with cutting oils	Decanting / Flotation Sludge dewatering
Textile	Dye Fixation Waste Water Sludge generated	Decanting / Flotation Sludge dewatering
Drillings	Drillings to find water Tunnel construction Sludge generated	Drilling Fluid Formulation Decanting / Flotation Sludge dewatering
Oil&Gas	Boat Shedding Waters Drillings Refineries Secondary well recovery Mud	Drilling Fluid Formulation Decanting / Flotation Sludge dewatering

# WE ARE WORKING ON...

# derypol

At Derypol, we work hard every day in order to always be sustainable, not only for the environment, but also for our company and our clients, trying to strengthen bonds of collaboration between us to allow us both to continue growing as a company, helping by:

- Offering the most profitable, effective and sustainable treatment solutions.
- Offering a service that always improves experience.
- Adapting to the new environmental legislative demands.
- Offering peace of mind knowing that the treatment plants are in good hands.
- Contributing to the effort to maintain our blue planet.

Our range of products is in continuous evolution, focusing our efforts especially on the search of new products that satisfy the needs in the market in the most sustainable way. Our success is due to the great collaboration between departments and with our customers, partners, etc. Our strength lies in the research and development of products and practical applications, adapting ourselves to the needs of our customers, thanks to an organization that works with dynamism, creativity, effort, and above all, with enthusiasm.

#### We make polymers, we take care of the environment and the people.





#### DERYPOL, S.A.

#### Offices:

C/ Plató, № 6 Entlo. 5º
Tel. +34 93 238 90 90, Fax +34 93238 90 91
08021 Barcelona (España)
E-mail: info@derypol.com

#### **Factory and Laboratory:**

C/de Cal Gabatx, s/n.
Tel. +34 93 849 61 88 – Fax +34 93 846 41 93
08520 Les Franqueses del Vallès
Barcelona - Spain

www.derypol.com

