



BIOTECH
BIOTECNOLOGIE PER L'AMBIENTE

Eco-Friendly solutions for Industrial Washing





PRODUCTS



The **Biotech** products used in the washing systems are formulated from alginates derived from a special natural process involving the hydrolysis of marine algae in combination with organic chemical compounds. These products are personalised to meet the specific requirements of the client and without ever overlooking the important factors of the environment, safety and health.

Their main features are:

- Completely natural
- Non-toxic
- Non-noxious
- Non-corrosive
- Non-pathogenic
- Biodegradable
- Highly efficient
- Involve no special precautions during use

Our products do not require labelling with danger or hazard warnings, and they represent a genuine response to the problem of chemical pollution. In addition, they carry no implications for health and safety concerns, massively reducing the risks related to use of chemical products, both for the company and its operators.

Most of our products come in liquid form and are slightly soapy to the touch. No particular precautions are required with regard to storage and the products are neither flammable nor highly perishable. Most of them are odourless and have a characteristic colour which can vary from one batch to another without in any way affecting their efficacy. They can be used with every existing type of system, both at low and high pressure, and on every type of metal and/or plastic material. Generally, the amount of our product used in cleaning systems is significantly lower than the quantity of chemical product employed, and so the solution itself also lasts much longer.

APPLICATION AREA



Washing of mechanical components made from:

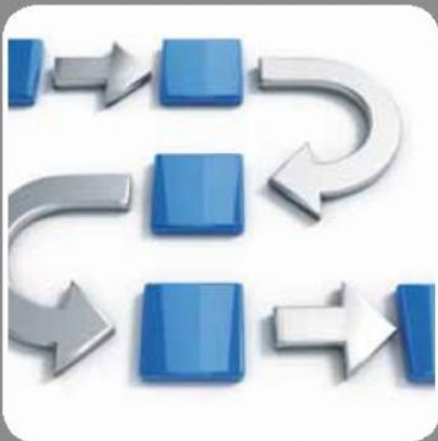
- METAL AND ALLOYS (steel, cast iron, aluminium, brass, copper, titanium, etc.)
- RUBBER AND PLASTIC MATERIALS
- COMPOSITE MATERIALS (carbon fibre, glass fibre, etc.)

Our products can be used in all types of washing systems:

- ULTRASOUND
- HYDROKINETIC
- SPRAY (low and high pressure)
- COMBINED



METHODOLOGY



Biotech Srl has a team of highly qualified personnel who plan and carry out these operations, employing the following operating methods:

- Initial feasibility studies
- Technical evaluation and budget estimate
- Gradual setting-up of systems
- Assessment of technical planning operations and management methods
- Training of operating personnel
- Start-up of processes
- Evaluation of technical and economic costs
- Optimisation of processes
- Broadening of applications

The products used in the washing systems are made up of mixtures of surfactants derived from natural extracts from marine algae and plants. The action of surfactants is extremely efficient and owes this quality to the polar activity of the complex carbohydrates found in the compounds extracted from marine algae. Our task is not simply that of substituting a synthetic chemical product with a better performing biological product. Instead, it involves a real change in technology, which reaps positive rewards when an effective process of collaboration is established between the user company and the firm supplying the technology. The introduction of our technologies into the manufacturing sectors requires their active involvement, and the graduated provision of accurate information to both the management and the entire operational structure of the company.

The task of Biotech Srl is to supply the best biotechnology available on the market for the company's specific needs, and at the same time to budget, design, set in motion and optimise all the effective applications available.

TECHNOLOGY



COMPANY



Biotech Srl has been involved for several years with the largest groups mechanical industry and has built and completed applications aimed at replacing synthetic chemicals with completely natural organic products in the factories of washing of metal, plastic and composite materials.

Biotech's strengths are the application **know-how** and the **technical support** that is given to the end user. This is us characterizes not so much as a product supplier company, but as a company that provides applications of biological techniques aimed at improving the customer's production activity.

OBJECTIVES



QUALITY

The degree of cleanliness which can be achieved may differ considerably with respect to the needs of the user company and can be easily compared to the other technologies in use or available on the market.

For every separate application, Biotech Srl carries out a precise analysis of client's needs and an examination of the systems in use, in order to identify the product which will offer the best performance and also the most suitable method of application. Significant improvements in quality have been achieved on different types of metallic material (steel, aluminium, cast iron, alloys, etc.) and on plastic materials in general, contaminated by emulsion oils, cutting oils, tempering oils, moulding oils, protective oils, etc

ENVIRONMENTAL IMPACT

This is the pride and joy of our technology, incorporating the following features

- No risks involved in storage, movement or handling
- No implications for health or the environment
- No noxious volatile compounds released into the atmosphere
- Significant improvement to conditions of washing systems
- Significant reduction of waste requiring disposal
- Significant reduction in water consumption
- Significant reduction in polluting content in waste-water requiring treatment



COSTS

- Reduction in the quantities used
- Reduction in temperatures of the washing process
- Increased duration of cleaning solutions
- Reduction in number of cleaning and maintenance operations for the systems
- Reduction in quantity of waste-water requiring disposal
- Reduction in polluting content in waste-water destined for treatment
- Reduction/elimination of risks to people and the environment





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