BRIEF OVERVIEW OF MICROENCAPSULATION TECHNOLOGY

THE TECHNOLOGY KNOWN AS “MICROENCAPSULATION” ALLOWS THE CONTAINMENT OF ANY LIPOSOLUBLE ACTIVE INGREDIENT INSIDE A “CAPSULE”, AND ITS PROTECTION AGAINST EXTERNAL AGENTS.

AN ACTIVE INGREDIENT IS ENCAPSULATED IN ORDER TO CONTROL ITS RELEASE AND TO CONSERVE ITS EFFECTS FOR THE LONGEST POSSIBLE TIME.

THE MICROENCAPSULATED ACTIVE INGREDIENT CAN BE RELEASED BOTH SLOWLY AND PROGRESSIVELY, OR QUICKLY BY BREAKING THE “CAPSULE” THROUGH THE APPLICATION OF SLIGHT PRESSURE.

THE SIZE OF THE MICROCAPSULES VARIES BETWEEN 1My AND 10My.

MICROENCAPSULATION CHARACTERISTICS

- INCREASES THE LONGEVITY AND RATIONALIZES THE RELEASE OF THE CONTAINED ACTIVE INGREDIENT

- PROTECTS SUBSTANCES FROM THE EFFECTS OF SPECIFIC ENVIRONMENTS (HEAT, PH, ..)

- MINIMIZES LOSSES DURING THE MANUFACTURING PROCESS
### Classification

<table>
<thead>
<tr>
<th>Slurry Type (for water-based)</th>
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<tr>
<td><strong>Appearance</strong> Milk-white emulsion</td>
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<tr>
<td><strong>pH</strong> 5 ± 1 (adjustable)</td>
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<td><strong>Solid content</strong> 44%</td>
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<td><strong>Average size</strong> 1~5</td>
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<td><strong>Aroma contents</strong> 10 - 20%</td>
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<td><strong>Ionic property</strong> weak anion</td>
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<td><strong>Dispersibility</strong> Good</td>
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### MICROENCAPSULABLE PRODUCTS

Our company is a leader in the Microencapsulation of LIPOSOLUBLE active ingredients in Italy, ingredients such as:

**PERFUMES**
**AROMAS**
**FRAGRANCES**
**ANTI-MITE INGREDIENTS**
**MOSQUITO REPELLENTS**
**SANITIZING SUBSTANCES (TRICLOSAN)**
**ALOE CALENDULA-GINSENG**
**EMOLLIENT OILS**
**SOOTHING OILS**
**SUBSTANCES WITH DEODORIZING PROPERTIES**
These micro-encapsulated products are used in the following products:

- Softeners with long lasting fragrances

- "Intelligent" fabrics
  (scented, deodorizing, emollients...)

- Scented and soothing paper
  (handkerchiefs, toilet paper, tissue...)

- Floor cleaners with slow-release scents or long lasting antibacterial properties