MEMBRANE TECHNOLOGY

Membrane Technology at TECNALIA is focused on the development of Membrane Materials for Industrial Gas Separation demands. Aiming at increasing the efficiency, reducing the operating and capital costs and physical as well as environmental footprint for the target separations:

<table>
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<tr>
<th>Gas separation membranes for industrial / environmental applications</th>
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<tr>
<td><strong>H₂ Separation</strong></td>
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<tr>
<td><strong>CO₂ Capture</strong></td>
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<tr>
<td><strong>Natural Gas Processing</strong></td>
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<tr>
<td><strong>Biogas Upgrading</strong></td>
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<tr>
<td><strong>Air Separation</strong></td>
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</tbody>
</table>

**EXAMPLES OF EQUIPMENTS**

Semi-Industrial Hollow fiber spinning set-up to go from lab to plant

Carbon membranes preparation equipment

Membrane performance gas permeation testing equipment (different pressures, temperatures and gas compositions)

**POLYMERIC MEMBRANES**

Polymeric membranes in a module

Hollow fiber membrane preparation, a step forward towards industrial application

**INORGANIC MEMBRANES**

Preparation of inorganic membranes

Inorganic membranes to reach where polymeric membranes cannot reach

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