
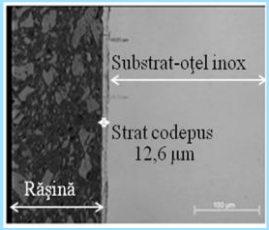
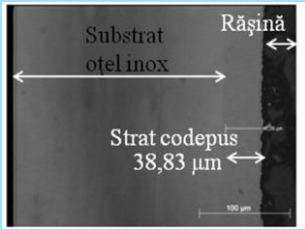


**Competences (Research) Center:
Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES).**

<p>Offer name:</p>	<p>Electrochemical deposition: metals, alloys, hybrids, nanocomposites, micro and nanostructured layers and coatings. Evaluating their properties</p>
<p>Description</p>	<p>Consultancy, expertise, technical assistance and technological parameters for electrochemical depositions: metals, alloys, hybrids, nanocomposites, micro and nanostructures Evaluation of the corrosion degradation resistance (corrosion rate) in different industrial, food and biomedical systems, electrochemicals such as: Open Circuit Potential (OCP), Electrochemical Impedance (EIS) spectroscopy, Potential Dynamic Polarization (PD), Linear Polarization. polarization resistance (Rp) and cyclic voltammetry (CV).</p> <p>The hybrid or composite electrodeposition process consists of the inclusion of the suspended solid particles in the electrodeposition bath in the metal which electro-crystallizes and which is the metal matrix.</p> <p>The electrodeposition technique consists of an electrochemical double-walled cell to keep the temperature of the solution constant. This cell contains a reference electrode, a metal matrix (nickel) representing the anode and substrate on which the electrodeposition (carbon steel, stainless steel, other materials) is cathode. All three electrodes are positioned vertically and parallel to each other. In this configuration, the particles are held in suspension in solution by means of a magnetic stirrer.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="384 1162 738 1442" style="text-align: center;">  <p>Fig. 1</p> </div> <div data-bbox="738 1162 1038 1442" style="text-align: center;">  <p>Fig. 2</p> </div> <div data-bbox="1038 1162 1415 1442" style="text-align: center;">  <p>Fig. 3</p> </div> </div>
<p>Responsible</p>	<p>Prof. Univ. Dr. (Ph.D.) Chem. Lidia BENEĂ. Competences (Research) Center: Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES). Dunărea de Jos University of Galati.</p>
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