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**The electrochemical deposition of nickel from Watt’s bath**

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In this work, nickel deposits were produced by direct current electrodeposition on nickel substrates. Electrodeposition using a free-additive Watt’s bath. No additives were used in order to limit the incorporation of pollutants resulting from surface adsorption or electro-activity of these compounds.

The optimum conditions of deposition were established and the influence current density on the grain size, surface morphology and crystal orientation was determined.

The study showed that the current density has a remarkable influence on the surface morphology of electrodeposited Ni. Nickel coating has been investigated by Scanning electron microscopy and X-ray diffraction. Cyclic voltammetry was also used to gain information on the general behaviour of the deposition process.

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