**T1:** The operating conditions and electrodes used in electrodeposition of Ni-Co alloy.

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| **Operating conditions** |
| Current density (mA/cm2) | 6 - 24 |
| pH  | 4.5 |
| Temperature (ºC) | 25  |
| **Electrodes** |
| Cathode | Cu sheet (6.25 cm2, 0.25 cm thick, 99.99%, Advent Research Materials) |
| Anode | Pt sheet 6.25 cm2, 0.25 cm thick, 99.95% metals basis. Alfa Aeser. |
| Working electrode (WE) | Glassy carbon electrode (GCE)(0.156 cm2 Glassy carbon disk electrode in peek body 6 mm Reorder ET 051) |
| Counter electrode (CE) | Pt sheet 6.25 cm2, 0.25 cm thick, 99.95% metals basis. Alfa Aeser. |
| Reference electrode (RE)  | Saturated calomel electrode (SCE), (Hanna Instrument (Italy) HI5412)  |
| **The deposition cell**  | **A rectangular trough (10× 2.5× 2 cm, made by Perspex)** |