

POTENTIODYNAMIC INVESTIGATION OF THE ANTICORROSIVE ACTION OF *COTULA CINERAE* EXTRACTS ON MILD STEEL X 52 IN 20 % H₂SO₄ SOLUTION.

Abd-el-Kader BENMNINE^(a), Mohamed Rida OUAHRANI^(a), Nourdine GHERRAF^(a),
Lotfi BAAMEUR^(b) and Lamine Skrifa^(b).

^(a, b) Laboratory of valorization and promotion of Sahara resources (VPRS), University Kasdi Merbah, BP511 Ouargla (Algeria).

ABSTRACT:

The effect of *Cotula cinerae* extract on the corrosion rates of mild steel X52 in 20% H₂SO₄ solution has been elucidated at 25 C° by potentiodynamic polarization method. The maximum inhibition efficiency (% η_{Pol}) was about 95 %. As far as we know, the anticorrosive behavior of this plant has never been undertaken in literature.

KEY WORD: mild Steel, *Cotula cinerae*, corrosion inhibitors, Tafel plots.