

A hot-stamped coated steel part comprising a steel substrate and an aluminum alloy coating comprising, proceeding from steel substrate outwards, an interdiffusion layer and an outer layer, the total thickness of the coating e_{coating} and the thickness of the interdiffusion layer δ_{IDL} satisfy the following condition: $40 < E_{\text{pc}} < 80$ with FORMULA I The hot-stamped coated steel part comprises an undeformed portion having a thickness e_{pflat} from 0.6 mm to 3.5 mm, and at least one deformed portion. A lineic density of cracks dC in the coating in the undeformed portion is higher than or equal to a minimum lineic density of cracks $dC_{\text{min}}(e_{\text{pflat}})$ defined as: FORMULA II