

conclude that the sensitivity of the detection depends on the one hand, the position of the defect with respect to the separation of the layers of the detection coil, and on the other hand the length of the defect in relation to the length of the rivet head, the sensor calibration based on the chosen impedance which computed when the EC-sensor above the multilayer structure without defect and taken into account the electrical conductivity of the rivet, the computed results show very variation between the two models with and without taking into account the rivet conductivity.

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