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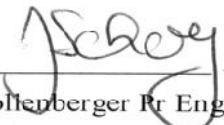
**SALT SPRAY CORROSION TESTING
OF THE PRE-GALVANISED AND THE
PRE-GALVANISED AND ALUMINIUM PAINTED
STEEL WIRE MESH SAMPLES**

By

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EXECUTIVE SUMMARY

The NPDC of the Manufacturing and Materials Business Unit of the CSIR was requested to carry out salt spray corrosion testing of two steel wire mesh products which had been coated as follows: (a) The standard wire mesh which had been hot dip galvanised in zinc before welding (Sample A) and (b) The standard wire mesh which had been hot dip galvanised in zinc before welding and painted with the aluminium paint after welding (Sample B). Both wire mesh samples did not display red rusting after 1008 hours of salt spray corrosion testing. The pre-galvanised Sample A only displayed white rusting after 24 hours of salt spray corrosion testing mainly at the welded areas. The aluminium coated Sample B showed an improved resistance to corrosion attack under conditions of salt spray corrosion testing and only displayed white rusting after 792 hours of corrosion testing. It should be borne in mind that for as long as white rust is present, the underlying steel substrate is protected from the effects of corrosion and the galvanised layer remains intact.

Keywords: Galvanising, wire mesh, salt spray, aluminium paint, atmospheric corrosion.