



## Superior Corrosion Performance

Introducing Zalcote® from OneSteel - a zinc and aluminium alloy coating that provides superior corrosion performance for wire products.

### What is Zalcote?

Zalcote® is a new protective coating specifically designed to enhance the working life of steel wire products. The coating comprises of 5% Aluminium and 95% zinc alloy.

The Zalcote process forms 2 different alloy layers, providing both **passive** and **galvanic protection** to the steel wire in the one coating.

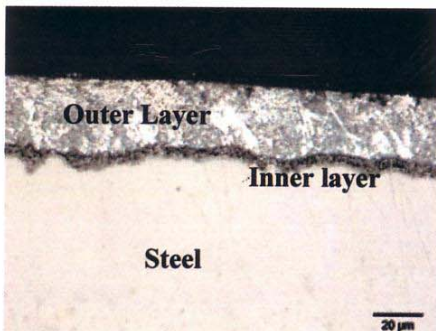


Photo 1. Micrograph of Zalcote coating

The Zalcote inner layer forms an **iron- aluminium alloy** that acts as a **passive barrier**.

The Zalcote outer layer of zinc and aluminium is finer and more homogeneous than zinc. This outer layer provides **galvanic protection** offering sacrificial protection to the steel wire.

The zinc coating on galvanised products only protects the steel with a galvanic protection.

### Advantages of Zalcote

- **Longer Life** - Greater Corrosion Resistance
- **Ductile Coating** - Ideal for Woven Wires
- **Good Welding Performance**- Ideal for Welded Meshes
- **Manufactured by OneSteel** - High quality Australian made

### Zalcote- Superior Corrosion Performance

Independent international research and studies undertaken at OneSteel' corrosion sites around Australia, demonstrate the superior corrosion performance of zinc/5% Al- alloys such as Zalcote.

This fact is supported in Australian Standard AS 2423 **Coated steel wire fencing products for terrestrial, aquatic and general use**, which states

*“Studies under Australian external atmospheric field conditions have shown that the zinc/5% aluminium- alloy coatings on wire offer from about **two up to four times greater protection** per unit coating mass, than do zinc coatings”*

### Welded Meshes

The superior corrosion performance of Zalcote applies to welded meshes as well as other wire products. At OneSteel's severe marine corrosion site at Belmont Beach, samples of hot dip galvanised and Zalcote welded meshes were monitored over a period of time. The relative time taken for the samples to reach 40-70% red rust is displayed in the graph below.

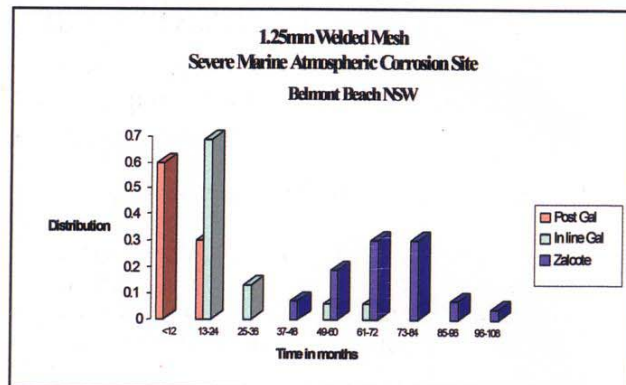


Table 1. - Welded and woven mesh samples Belmont Beach NSW

**For Further Information** contact OneSteel Direct on Free call 1800 1 78335 or visit [www.onesteel.com](http://www.onesteel.com)

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