

Technical Specification

March 2020

Revision 1.0

MAGNATUBE®

Longer Life, Better Finish.

Introduction

MAGNAtube®

Longer Life, Better Finish.

Guard Angel by Bettersafe International is primarily manufactured from materials with the highest level of corrosion resistance possible from coated mild steel. The latest material to join the ranks is MAGNAtube®

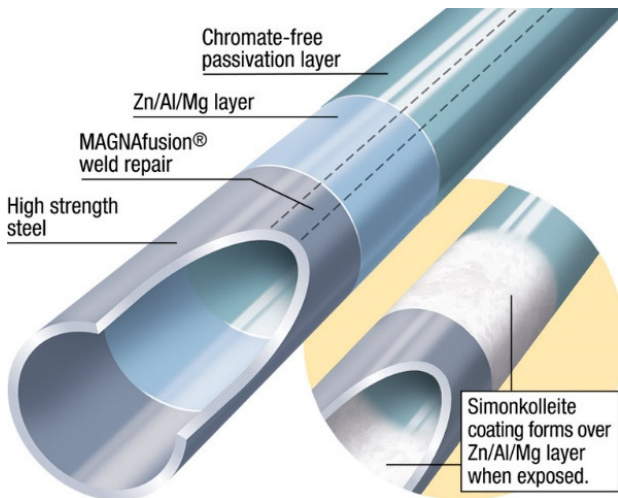


MAGNAtube®'s evolutionary zinc/aluminium/magnesium coating withstands the most hostile conditions, including alkaline and ammonia rich environments. Furthermore, in exhaustive tests conducted by leading UK test house Rotech Laboratories MAGNAtube® lasted the equivalent of 100 years without significant deterioration.

With unique MAGNAfusion® weld repair, 100% exterior and interior protection is guaranteed. This, together with MAGNAtube®'s tough scratch-resistant surface, offers extreme product longevity.

The Simonkollite Factor

The magnesium content within the coating forms an additional highly stable layer called Simonkollite which completes a triple level of unrivalled protection both outside and inside the tube. Even cut edges are protected by the spreading of this Simonkollite layer.

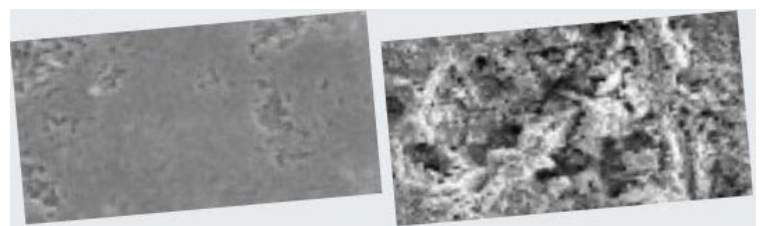


Key Benefits

- Up to 20 times the corrosion resistance of galvanised tube
- High strength steel
- Greatly extended product life
- Edge protection
- Enhanced formability
- Total exterior and interior protection
- Unique MAGNAfusion™ weld repair
- Harder more resilient surface
- Environmental sustainability

Surface density

The corrosion resistance of MAGNAtube® is due to the dense protective layer formed on the outer and inner surfaces of the tube, in contrast to the porous surface of galvanised tube.

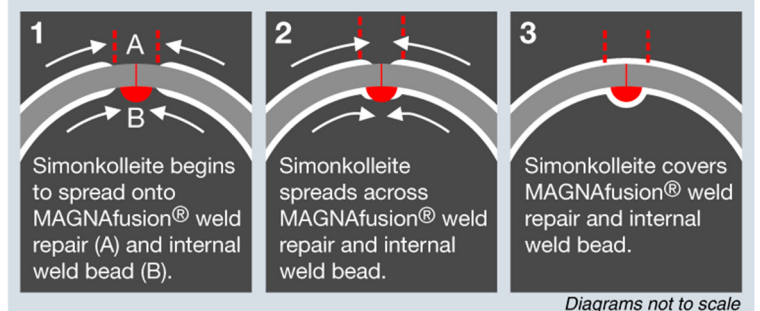


Dense MAGNAtube® surface

Porous galvanised surface

MAGNAfusion™ weld repair

The unique MAGNAfusion™ weld repair used in the manufacture of MAGNAtube®, is carefully formulated to precisely match the characteristics of the rest of the coating, ensuring consistent exterior and interior surface protection, resulting in the same level of corrosion resistance throughout.

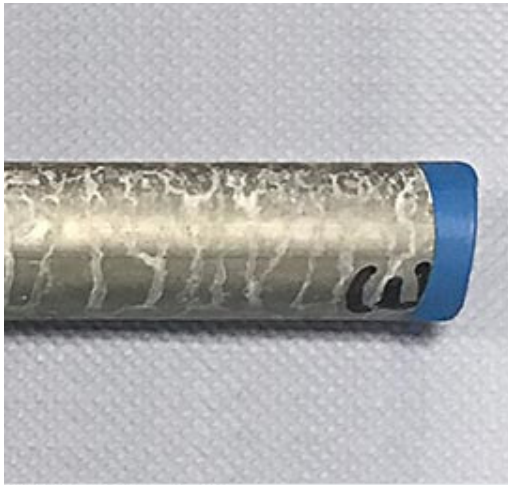


Diagrams not to scale

Corrosion Resistance

Testing

120 hour salt spray test



MAGNAtube®



Pre-galvanised tube



Hot dip galvanised tube

1392 hour salt spray test



MAGNAtube®



Pre-galvanised tube



Hot dip galvanised tube

3000 hour salt spray test



MAGNAtube®



Pre-galvanised tube



Hot dip galvanised tube



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