

QUALITY • INTEGRITY • FAIR PRICING •

THE NDE SOLUTION

• SERVICE ACCESSIBILITY • EXPERTISE



CORROSION RESISTANT MATERIALS AND SOLUTIONS

Stainless Steel in Water Applications

Stainless Steel in Water Applications



Overview

- Composition
- Corrosion resistance
- Families of stainless steel
- Desalination applications
- Attributes of stainless steel
- Proven applications
- Fabrication
- Care
- Cost savings

Stainless Steel in Water Applications



Duplex Applications



Stainless Steel in Water Applications



Relevant Attributes in the Water Industry

CHARACTERISTICS	ADVANTAGES
High corrosion resistance	No re-investment, consistent operation
No corrosion or leach products, no organoleptic or turbidity problems	Clear and pure drinking water
Smooth surface	Less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
Recyclable	Cost benefits and low environmental impact

Stainless Steel in Water Applications



Proven Applications of Stainless Steels in the Water Industry

Mechanical systems

- Pre-treatment tanks
- Syphons and lifting devices
- Weirs and overflows
- Slide gates
- Valves and pumps
- Bolting

Stainless Steel in Water Applications



Provided that care is taken with:

- use of the correct grade (specified by a specialist)
- correct design to ensure minimising corrosion and mechanical problems

stainless steels can offer highly successful and economically viable solutions to your plant both in initial costs and life cycle costing

This presentation is drawn from over 70 years of NDE company experience and relationships with local and international suppliers including Outokumpu

www.nde.co.za

The logo for NDE (Non-Destructive Evaluation) is displayed in a stylized, outlined font. The letters 'N', 'D', and 'E' are interconnected, with the 'D' having a unique shape. The logo is positioned in the lower center of the page, above a horizontal line.

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