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THE NDE SOLUTION

• SERVICE ACCESSIBILITY • EXPERTISE



CORROSION RESISTANT MATERIALS AND SOLUTIONS

Stainless Steel for Engineers

Stainless Steel for Engineers



Overview

- Composition
- Corrosion resistance and corrosion
- Families of stainless steel
- Fabrication
- Care
- Cost savings

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

Stainless Steel for Engineers

Duplex Applications



Counter Current Decantation (CCD) tank in mining industry

Stainless Steel for Engineers



Summary

- When planning a new project it is always advantageous to select material in tandem with
 - Process design
 - Mechanical design
- Sometimes the process designed requires very expensive construction materials. Small changes to the process parameters can significantly affect the selection and therefore the costs of construction materials.
- In mechanical design the choice of a high tensile strength stainless steel can result in lighter equipment which may affect other costs such as civil design, smaller and lighter gearboxes and electric motors.

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