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CORROSION RESISTANT MATERIALS AND SOLUTIONS

#### SERVICE ACCESSIBILITY EXPERTISE

# **Stainless Steel in Hygienic Applications**

#### **Stainless Steel in Hygienic Applications**

Stainless steels are appropriate materials for fabrication of equipment in a wide range of applications in the food, beverage and pharmaceutical industries due to:

- the ease with which surfaces can be kept hygienically clean
- the corrosion resistance, if grades are correctly selected

Effective cleaning processes have a significant impact on surface cleanliness.

Rough surfaces make cleaning more difficult.

### **Stainless Steel in Hygienic Applications**



These **two** major factors play a role in the selection of stainless steel in hygienic applications:



## **Stainless Steel in Hygienic Applications**

#### **Overview**

- Composition
- Corrosion mechanisms
- Requirements for corrosion resistance in hygienic applications
- Surface finishes
- Family tree of stainless steels
- Fabrication including pickling and passivating
- Designing with stainless steel

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



Stainless steel is very often the material of choice for equipment in hygienic applications.

Providing that care is taken with the following issues, it can offer excellent performance:

- Material selection
- Surface finish requirements
- Equipment and plant design
- Careful adherence to operating procedures

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