



## 2205 DUPLEX GRADE STAINLESS STEEL 'The improved alternative to 316 Grade Stainless Steel'

Katsu Glass Design offers our clients a spigot system that uses Grade 2205 stainless steel, making our frameless glass fencing one of the best in the world.

### GRADE 2205 Stainless Steel

Grade 2205 is a superior stainless steel as it offers real advantages over 316 grade stainless steel.

The elements of chromium (22%), molybdenum (3%) and nitrogen (0.18%) present in Grade 2205 guarantees that this product is more resilient to corrosion.

Grade 2205 uses the beneficial properties of ferritic and austenitic steels in equal proportions, hence the term 'duplex'.

### Advantages of GRADE 2205 Stainless Steel

- High Strength
- Lower thermal expansion coefficient than austenitic steels but greater than carbon steels
- High resistance to corrosion, particularly stress corrosion cracking, corrosion fatigue and erosion

### High content of chromium and molybdenum, with the addition of nitrogen gives Grade 2205 stainless steel:

- High general corrosion resistance
- High pitting and crevice corrosion resistance
- Good sulphide stress corrosion cracking resistance
- Coastal corrosion and tea staining resistance in water containing chlorides

### Key Recommendations using Grade 2205

#### Location

The Australian Stainless steel Association recommends that grade 2205 stainless steel be used in areas exposed to coastal environments, at least within a 5-kilometre radius from the ocean.

#### Areas where Grade 2205 should be used

- Environments that are exposed to salt water and spray
- Rough surfaces or unwashed areas
- Waterfront constructions
- Pool areas
- Applications where tea staining cannot be tolerated
- Areas with high industrial pollution levels
- Areas where marine 316 grade stainless steel has been recommended

For more information visit: [www.katsuglass.com.au](http://www.katsuglass.com.au)

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