TYPE 304 & TYPE 316

STAINLESS STEEL ELECTRICAL CONNECTORS: A COMPARISON

TYPE 304
Standard Corrosion and Oxidation Resistance

TYPE 316
Highest Level of Corrosion and Oxidation Resistance

COMPOSITION

- The most common austenitic stainless steel
- Contains 8%-10.5% nickel and 18%-20% chromium
- Also contains manganese, silicon, carbon and iron

- High amounts of chromium and nickel, but the majority of the composition is iron, along with silicon, manganese, and carbon
- Contains a significant amount of molybdenum - typically 2%-3%

BENEFITS

- Easy to sanitize
- Lower cost
- Excellent strength and toughness
- Resistant to heat and oxidation
- Available in a variety of finishes and appearances
- Most versatile and widely used

- Superior corrosion resistance
- Resists pitting
- Chlorine resistant
- Greater chemical resistance
- Prevents product contamination
- Provides superior tensile strength at high temps

APPLICATIONS

- Mining equipment
- Dyeing industries
- Storage tanks & pressure vessels
- Indoor electrical enclosures
- Wet or humid environments
- Food processing
- Water filtration systems
- Dairy equipment

- Offshore and marine
- Outdoor electrical enclosures
- Chemical and pharmaceutical industry
- Surgical and medical
- FDA mandated washdowns
- Petroleum refining equipment
- Wastewater treatment
- Pulp and paper processing

CHOOSE IF...

- Cost is an issue - Type 304 is typically more affordable
- The application needs to withstand oxidizing acids or needs easy sanitation
- The application has no chloride solutions

- There is exposure to high amounts of corrosive elements, industrial solvents, or if it is a high-saline environment
- The application is underwater or will be exposed to water consistently
- Greater strength and hardness are required

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