

Benefits of Stainless Steel



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Hygienic properties

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Aesthetic appeal

Stainless steel is a durable, low maintenance material and is often the least expensive choice in a life cycle cost comparison.

Life cycle characteristics

Strength

The cold work hardening properties of many stainless steels can be used in design to reduce material thicknesses and reduce weight and costs. Other stainless steels may be heat treated to make very high strength components.

High and low temperature resistance

Some grades will resist scaling and maintain high strength at very high temperatures, while others show exceptional toughness at cryogenic temperatures.

Corrosion resistance

All stainless steels have a high resistance to corrosion. Low alloyed grades resist corrosion in atmospheric conditions; highly alloyed grades can resist corrosion in most acids, alkaline solutions, and chloridebearing environments, even at elevated temperatures and pressures.

