

Super Duplex Casting

Duplex and [super duplex stainless steel castings](#) are stainless steel castings that are approximately 50/50 mixes of austenitic and ferritic phases. They are also known as austenitic-ferritic stainless steel castings.

By combining the advantages of ferritic and austenitic stainless steels, dual-phase steels offer high strength and excellent resistance to corrosion, such as stress corrosion cracking. Super duplex castings are more complex and have higher alloy content than duplex castings. They offer higher strength and corrosion resistance and are therefore suitable for extremely demanding applications. This casting can meet the requirements of harsh environments such as desalination plants and is used in the oil and gas industry.

Our Super Duplex Castings

At Jccasting, we manufacture a wide range of super duplex stainless steel castings designed to meet your exact requirements. We can manufacture everything from alloy castings to impeller castings, and we handle the entire process for you.

Our fully equipped foundry with 200 kW induction furnace ensures the best results every time. Our in-house team is experienced in manufacturing all grades of ferrous alloy castings. While we specialize in stainless steel castings, we also offer hard sand molding, induction melting, chemical analysis, heat treatment and many other services.

We manufacture castings and impellers according to samples, drawings and models provided by customers, and can even organize model making and casting processing.

Advantages of super duplex stainless steel:

Very high resistance to pitting and crevice corrosion

Excellent resistance to stress corrosion cracking (SCC) in chloride bearing environments

High resistance to general corrosion by acids

Excellent erosion and corrosion resistance

Excellent corrosion fatigue resistance

very high mechanical strength

good weldability