310S Heat Resistant Grade

DESCRIPTION:

310S is a high-alloyed austenitic stainless steel designed for elevated temperature applications.
Some of the beneficial characteristics include good corrosion resistance, high strength in elevated temperatures, and excellent oxidation resistance. With a high nickel and chromium content, this alloy is superior to 304 or 309 in most applications. 310S has good welding characteristics.

APPLICATIONS:

- Furnace parts
- Furnace Conveyors
- Heat Exchangers
- Welding Filler wire

CHEMICAL COMPOSITION:

Carbon	*0.08 max*
Chromium	*24.0 – 26.0*
Nickel	*19.0 – 22.0*
Manganese	*2.0 max*
Silicon	*1.0 max*
Phosphorus	*0.045 max*

MECHANICAL PROPERTIES:

Yield Strength	*30 KSI min*
Tensile Strength	*75 KSI min*
Elongatin	*40%*
Hardness	*95 Rockwell B*

STAINLESS STRUCTURALS CAN PRODUCE THIS ALLOY IN BEAMS, CHANNELS, ANGLES, TEES AND CUSTOM SHAPES.

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