



Stainless Steel 253 MA

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Stainless Steel 253 MA material.

UNS - S30815

Stainless Steel 253 MA is an incline austenitic heat resistant alloy with high strength and extraordinary oxidation resistance. 253 MA keeps up its heat resistant properties by advanced control of micro alloy additions.

The utilization of uncommon earth metals joined with silicon, which provides better oxidation resistance up to 2000°F. Nitrogen, carbon and a dispersion of uncommon earth and alkali metal oxides join to give creep rupture strength similar to the nickel base alloys. A wide variety of parts requiring high strength at high temperatures for example heat exchangers, kilns, stack dampers as well as oven components are common applications for Stainless Steel 253 MA.

Characteristics

- Excellent oxidation resistance to 2000°F
- High creep-rupture strength

Applications

- Burners, Boiler Nozzles
- Petrochemical and refinery tube hangers
- Heat exchangers
- Expansion bellow
- Stack dampers

Sheng He Pipe Industry offers Stainless Steel 253 MA in a variety of forms, including:

- Pipe & Welded pipe
- Pipe fittings
- Seamless tube & Welded tube
- Flanges
- Bar
- Sheet
- Wire



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- Plate
- Forgings
- Weld Rod

ASTM Specifications

Plate	Bar	Pipe SMLS	Pipe Welded
A 240, A 480, A 167	A 276, A 479	A 213, A 312	A 312, A 358, A 409, A 813, A 814

Chemical Composition

C	N	Si	P	S	Cr	Mn	Ni	Ce
0.05 - 0.10	0.14 - 0.20	1.4 - 2.0	0.04 max	0.03 max	20.0 - 22.0	0.8 max	10.0 - 12.0	0.03 - 0.08

Mechanical Properties

Tensile Strength (ksi)	0.2% Yield Strength (ksi)	Elongation% in 2 inches
87	45	40

Physical Properties

	Units	Temperature in °C
Density	7.8 g/cm ³	Room
Specific Heat	0.12 Kcal/kg.C	20°
Melting Range	1371 - 1432°C	-
Modulus of Elasticity	200 KN/mm ²	20°
Electrical Resistivity	84 μΩ.cm	Room
Coefficient of Expansion	16.5 μm/m °C	30 - 100°
Thermal Conductivity	14.3 W/m -°K	20°