JAMES DUVA INC.

ALLOY 200

(UNS N02200)

AVAILABILITY

Seamless Pipe 1/4″- 8″
Weld Pipe 8″- 24“
Butt-Weld Fittings 1/2″- 24″
Bar 1/8″- 11″
Flanges 1/2″- 24″
Pressure Fittings 1/4″- 2″
Seamless Tube 1/8" - 1"
Plate 1/8" - 3"

SPECIFICATIONS

ASTM B161, B162, B366, B160, B564
ASME SB161, SB162, SB366, SB160, SB564

CHEMICAL COMPOSITION %

C	Cu	Mn	Ni	S	Si
Max	Max	Max	Min	Max	Max
0.10	0.25	0.30	99.2	0.005	0.10

DESCRIPTION

Alloy 200 is an unalloyed wrought nickel. It offers excellent corrosion resistance, good mechanical, magnetic and magnetostrictive properties and useful thermal and electrical conductivities.

DESIGN FEATURES

- Excellent resistance to many corrosive media from acid to alkaline.
- Extremely high resistance to caustic alkalis including the molten state.
- Resistance to mineral acids varies according to temperature and concentration and whether or not the solution is aerated. Corrosion resistance is better in non-aerated acids.
- In acid, alkaline and neutral salt solutions, Alloy 200 shows good resistance, however, severe attack occurs in oxidizing salt solutions.
- Resistant to all dry gases at room temperature.

TYPICAL APPLICATIONS

Food production, such as the handling of cool brines, fatty acids and fruit juices
Vessels in which fluorine is generated and reacted with hydrocarbons
Storing and transportation of phenol – immunity from any attack ensures absolute product purity
Manufacture and handling of sodium hydroxide, particularly at temperatures above 570˚ F
Production of viscose rayon and manufacture of soap – general corrosion resistance and virtual immunity of intergranular attack above 600˚ F
Production of hydrochloride and chlorination of hydrocarbons such as benzene, methane and ethane

TENSILE REQUIREMENTS

Tensile Strength (KSI)	Yield Strength (KSI)
58	18

KSI can be converted to MPA (Megapascals) by multiplying by 6.895.

James Duva Inc. stocks Alloy 200 dual certified to Alloy 201 with reduced carbon content (0.02% MAX) for better corrosion resistance at temperatures above 570˚ F by avoiding graphite precipitation.

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