ORGANIZACION EN VALVULAS, S.A. DE C.V.
GENERAL TERAN No. 1107, COL. VILLARREAL C P. 66427 SAN NICOLAS DE LOS GARZA, N.L.
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VAL, S.A. DE C.V.

T-310S/310H PIPE

Description: 310/310H is an austenitic stainless steel often used in sulfur bearing gas atmospheres, heat exchanger recuperator tubing and molten salt applications. This high chromium and medium nickel grade has excellent resistance to oxidation under temperatures up to 2000°F.

From Stock

- Pipe

Specifications:

UNS S3108

Welded Pipe 8"-12" 10s, 40s, 80s ASTM/ASME 312

Smls Tube 1/2"-8" 10s, 40s, 80s ASTM/ASME 312

Accessories B/W 1/2"-12" 10s, 40s, 80s ASTM/ASME 403

Flanges 1/2"-12" 150#, 300# ASTM/ASME 182

CHEMICAL COMPOSITION

C	Cr	Mn	Mo	NI	P	S	Si
MAX		MAX	MAX		MAX	MAX	MAX
.08	24.0-26.0	2.0	0.75	19.0-22.0	0.045	0.03	0.75

Description: 310S has excellent to oxidation under constant resistance temperatures to 2000°F cyclic conditions reduce its resistance and a maximum operating temperature of 1900°F is generally recommended if cycling is involved.

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Having a lower coefficient of expansion than most 300 stainless steel 310S, may be used in operations involving moderately severe thermal cycling, such as rapid air cooling it is not usually recommended for liquid quenching, although 310S has less resistance to absorption of carbon and nitrogen than the higher alloys, such as 330 and 333, it is widely used in moderately carburized atmospheres, such as encountered in petro-chem plants. Because of its high chromium and medium nickel 310S may be used in atmospheres containing moderate amounts of sulfur.

Design Features

- Austenic stainless steel with excellent high temperature to oxidation resistance.
- Good for continuous exposure to 2100°F. Intermittent service to 1900°F
- Better elevated resistance temperature creep strength That the 18-8 grades
- Good resistance to both cementing and shrinking environments.
- General corrosion resistance better than types 304 and 309
- May be susceptible to chioride stress corrosion cracking
- Availability
- Ease of fabrication.

Typical applications:

Applications of the heat exchanger and its molten salt recovery tubes

Gaseous sulfur-bearing atmospheres.

Tensile Requirements

Tensile strength (KSI)	Yield strength (KSI)
75	30