

Stainless Steel

S32109 (321H) Fittings and Flanges

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	321H
US	S32109

A higher carbon modification of stainless steel 321 which provides greater strength at elevated temperatures.

CHEMICAL COMPOSITION

ASTM A182 S32109 Fittings

Element	% Present
Carbon (C)	0.04 - 0.10
Chromium (Cr)	17.00 - 19.00
Nickel (Ni)	9.00 - 12.00
Manganese (Mn)	0.00 - 2.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Silicon (Si)	0.00 - 1.00
Titanium (Ti)	0.00 - 0.60
Iron (Fe)	Balance

SUPPLIED FORMS

- Fittings & Flanges

APPLICATIONS

- Aircraft exhaust stacks and manifolds
- Jet engine parts
- Weld equipment
- Chemical processing equipment

CHARACTERISTICS

- Good low corrosion resistance to low content of hydrochloride and organic acids
- Very good resistance to raised temperature

MECHANICAL PROPERTIES

ASTM A182 Fittings and Flanges

Property	Value
Proof Stress	205 Min MPa
Tensile Strength	515 Min MPa
Elongation A50 mm	30 Min %

DISCLAIMER

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