

Grade

347 (UNS S34700), ASTM A479

Type

Austenitic stainless steel delivered in the solution annealed condition

Property	Values
0.2% Yield Strength	30 KSI min (207 MPA min)
Ultimate Tensile Strength	75 KSI min (517 MPA min)
Elongation	40
Hardness	150 Typical HBW

Composition

Element	Weight%
Carbon	0.08 max
Silicon	1 max
Manganese	2 max
Phosphorus	0.045 max
Sulphur	0.03 max
Chromium	17 - 19
Nickel	9 - 13
Manganese	2 max
Niobium + Tantalum	1 max

Notes: H grade also available (UNS S34709)

Grade Selection

The grade has excellent resistance to intergranular corrosion and pitting. Exhibits high creep and stress rupture properties. Is capable of high temperature service.

Application

Oil refinery parts, reactor equipment, heating tubes and heat exchanger parts, exhaust manifolds, fasteners, chemical processing equipment and aircraft applications.

Mechanical Properties

Solution annealed and water quenched