A286 Stainless Steel Pipe & Tube (UNS S66286/WNR 1.4944)

A286 Stainless Steel is nickel and iron-based, austenitic superalloy that is useful for applicationsthat needs high strength and corrosion resistance up to 1300˚F, and for lower stress applications at higher temperatures. It can also be produced by vacuum induction melting or by argon oxygen decarburization.Its mechanical propertiesare developed by suitable solution annealing and precipitation hardening treatments.

It has excellent high-temperature oxidation resistance and is designed to maximize creep and stress rupture properties, with some reduction in strength. It can attain high strength levels when aged after cold work and has wide applications in high-temperature fasteners and springs.

These **A286 AISI 660 Pipes** are usually seamless and pressure rated to avoid leakages as they usually carry liquids or gases. A286 AISI 660 Seamless Pipe ends are available with plain or beveled form.

A286 Stainless Steel Applications

It is used in super-charger components, aircraft and industrial gas turbine, jet engines, blades, wheels, frames, fasteners, castings, sockets, flange nuts, screws, afterburner parts, etc.

A286 Stainless Steel Machinability

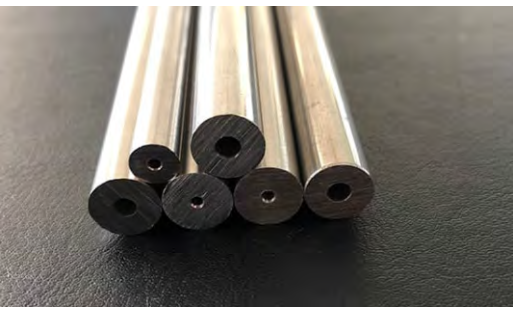
Properties	Metric	Imperial
Tensile strength	1035 Mpa	150100 psi
Yield strength (@strain 0.200%)	759 Mpa	110000 psi
Elongation at break	25%	25%
Reduction of area	40%	40%
Hardness, Rockwell C	32	32

A286 Stainless Steel Chemical Composition

Element	%
Carbon	0.08 max
Manganese	2.0 max
Phosphorus	0.025 max
Sulphur	0.025 max
Silicon	1.00max

Element	%
Chromium	13.5-16.0
Nickel	24.0-27.0
Molybdenum	1.0-1.50
Titanium	1.90-2.35
Vanadium	0.10-0.50

Element	%
Aluminium	0.35max
Boron	0.0003-0.010
Cobalt	1.00max
Copper	0.50max



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