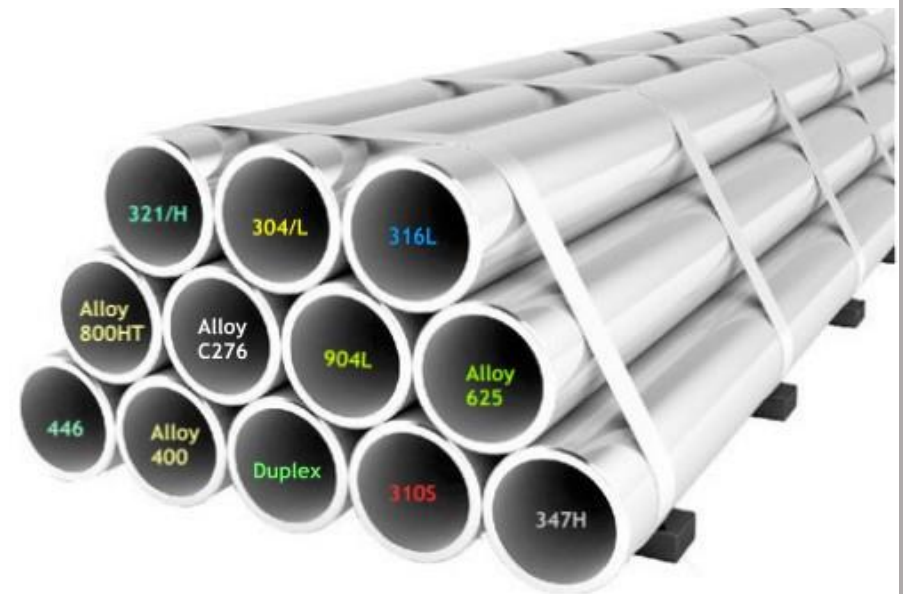


ALLOY A-286 (ALLOY 660)

Datasheet for Alloy A-286 (Alloy 660)

- Pipes & Tubes
- Sheets & Plates
- Bars & Rods, Forgings
- Fittings & Flanges
- Nuts & Bolts
- Valves



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Datasheet for Alloy A-286 (Alloy 660)

UNS S66286, 1.4980

What is Alloy A-286 (Alloy 660)?

- Alloy A286 (UNS S66286, WNR 1.4980), also commonly known as Alloy 660, is an age hardenable material, suitable for applications demanding high strength and corrosion control up to 700 Deg. C or 1290 Deg. F. Its corrosion resistance is similar to other Incoloy alloys. Nickel based super alloy A-286 can be used in the medium corrosion-based applications. It can be made by AOD refining or vacuum induction melting. Alloy A286 has outstanding fabricability and good mechanical characteristics due to age used hardenability. High ductility in notched parts and this alloy has excellent creeping strength in the prolong elevated temperature applications. A-286 alloy is for manufacturing components of aircraft and industrial gas turbines, blades, vanes, shafts, afterburners, and furnaces.

Alloy A-286 (Alloy 660) Product Specification

Product	Alloy A-286
Equivalents	UNS S66286, DIN W.Nr. 1.4980, Alloy 660
Items	Sheet, Plate, Rod, Bar, Square Bar, Threaded Bar, Hexagon Bar, Fasteners and Fixings, Round Bar, Flat Bar, Wire
Size	1/4" - 12"
Type	Hot Rolled, Cold Drawn, Forged
Specifications	ASTM, ASME, DIN, GOST, JIS
Certification	EN 10204 3.1
Fasteners	Nut, Bolts, Washer, Screw
Forgings	Machined Blocks, Square, Round, Rectangular Forgings

Alloy A286 (UNS S66286 / W Nr. 1.4980) Product Forms & Standards

Alloy A286 or Alloy 660 Bar, Rod, Wire, Forgings, Flange	ASTM A 638 ASME SA 638 SAE AMS 5726
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	<p>SAE AMS 5731 SAE AMS 5732 SAE AMS 5734 SAE AMS 5737 SAE AMS 5895 BS HR 51 BS HR 52 AECMA PrEn2171 AECMA PrEN2119 AECMA PrEN2172 AECMA PrEN2173 AECMA PrEN2174 AECMA PrEN2303 AECMA PrEN2304 AECMA PrEN2398 AECMA PrEN2399 AECMA PrEN3510</p>
Alloy A286 or Alloy 660 Sheet, Plate, Strip	<p>SAE AMS 5525 SAE AMS 5858 AECMA PrEN2175 AECMA PrEN241</p>
Alloy A286 or Alloy 660 Pipes, Tubes	<p>SAE AMS 5731 SAE AMS 5732 SAE AMS 5734 SAE AMS 5737 SAE AMS 5895</p>

Chemical Composition, Mechanical & Physical Properties of Alloy A-286

Chemical Composition of Alloy A286 (UNS S66286/W Nr. 1.4980)

Element	Values %
C	0.08 maximum
Mn	2.00 maximum
P	0.025 maximum
S	0.025 maximum
Si	1.00 maximum
Cr	13.50 - 16.00
Ni	24.00 - 27.00
Mo	1.00 - 1.50
Ti	1.90 - 2.35
V	0.10 - 0.50
Al	0.35 maximum
B	0.003 - 0.010
Fe	Balance

Mechanical Properties of Alloy A286 (UNS S66286 / W Nr. 1.4980)

Tensile Strength (Mpa)	Yield Strength (Mpa)	Elongation %
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610	270	30
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- Typical room temperature tensile properties of material solution treated at 1800°F (982°C) are shown above for reference purposes only.

Manufacturing Alloy A-286 (Alloy 660) Products

Alloy 660/A286 Sheet	Alloy 660/A286 Plate Cuttings/Profiles	Alloy 660/A286 Nuts, Bolts and Fasteners
Alloy 660/A286 Plate	Alloy 660/A286 Foil, Coil	Alloy 660/A286 Wire
Alloy 660/A286 Blocks/Slabs	Alloy 660/A286 Strip	Alloy 660/A286 Ingot
Alloy 660/A286 Rod/Bar	Alloy 660/A286 Pipes and Tubes	Alloy 660/A286 Forgings and Castings
Alloy 660/A286 Flanges	Alloy 660/A286 Forged Fittings	Alloy 660/A286 Butt Weld Fittings

About Metallica Metals – The Steel Pipes Factory

- Established in 1975, the Metallica Metals Group (The Steel Pipes Factory) has its operations spread across major cities in India. We are a pioneer in the stainless steel pipes, nickel alloy products, titanium products, carbon steel pipes and alloy steel pipes manufacturing and processing industry. Our products including pipe fittings, flanges, pipes, sheet plates and valves are exported to over 70 countries across the world, while in India we have supplied to even the remote areas. With over 250 tons of sale in stainless steel and carbon steel pipes every day, Metallica has emerged as a prominent vendor for many buyers in India and Overseas
- **More than 3000 tons ready from stock and new production ready in just a few weeks.**
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Our Key Products

STAINLESS STEEL & NICKEL ALLOYS

Pure Nickel Alloys
Monel Alloys (Ni-Cu Alloys)
Inconel (Ni-Cr-Mo) Alloys

INSTRUMENTATION TUBES & FITTINGS

Instrumentation Tube
Hydraulic Tubing
Seamless Tubing

PRODUCTS

Steel Sheet & Plate
Steel Coil & Strip
Steel Pipes

Incoloy Alloys (Ni-Cr-Fe)

Hastelloy Alloys

Stainless Steel 304/304L

Stainless Steel 309S/309H

Stainless Steel 310/310S

Stainless Steel 316/316L

Stainless Steel 316Ti

Stainless Steel 317/317L

Stainless Steel 321/321H

Stainless Steel 347/347H

Stainless Steel 904L

Duplex Steels (UNS S32205, UNS S31803)

Super Duplex Steels (UNS S32760 / UNS
S32750)

Stainless Steel 254 SMO (UNS S31254 / 1.4547)

Instrumentation Tube Fittings

Double Compression Tube Fittings

Precision Pipe Fittings

Needle & Gauge Valves

Manifold Valves

Steel Tubes

Electropolish Tube

Heat Exchanger Tubes

Steel Bars/Rods & Wire

Fasteners (Nut, Bolt, Washer)

Steel Angle Bars

Hex Steel Bars

Round Steel Bars & Rod

Flat Steel Bars

Forgings, Rings & Forged Blocks

Stainless Steel Pipe

Stainless Steel Seamless Pipe

Stainless Steel Welded Pipe

Stainless Steel Tubes

Stainless Steel Furnace Tubes

Stainless Steel Seamless Tubing

Stainless Steel Heat Exchanger Tubes

Large Diameter Pipe

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