



## A-286 (UNS K66286, S66286) HIGH PERFORMANCE ALLOY

Electralloy's A-286 is a precipitation hardening iron base alloy containing nickel, titanium, and molybdenum as major alloying elements. It is a popular high temperature metal for jet engine and gas turbine applications with moderately high strength up to 1300°F and oxidation resistance to 1500°F.

### CHEMICAL COMPOSITION (Nominal Analysis, weight percent)

Carbon ( <i>max</i> ) .....	0.08	Aluminum ( <i>max</i> ) .....	0.35
Manganese ( <i>max</i> ) .....	0.35	Titanium .....	1.90 / 2.35
Silicon ( <i>max</i> ) .....	0.30	Vanadium .....	0.10 / 0.50
Chromium .....	13.50 / 16.00	Boron .....	0.003 / 0.010
Molybdenum .....	1.00 / 1.50	Iron .....	Balance
Nickel .....	24.00 / 27.00		

### TYPICAL APPLICATIONS

Typical applications include gas turbine disks, blades, shafts, etc. **A-286** is attractive for elevated temperature fastener and spring applications. This alloy has also shown satisfactory cryogenic service to -423°F. High strength, non-magnetic applications are common because it remains essentially non-magnetic even after severe cold work.

Electralloy's **A-286** can be supplied to meet all the requirements of the following specifications, and more . . .

**AMS 5731, 5732, 5734, 5737, 5895**

**ASTM A638, A453**

**NACE MR0175**

Electralloy's **A-286** is available in a wide variety of sizes and forms, including ingot, billet, bar, and coil rod.

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