



ELECTRALLOY



WHEN THERE'S NO ROOM FOR ERROR, THERE'S NO BETTER CHOICE THAN ELECTRALLOY.

PRODUCT DISCOVERY SERIES

ECK500

UNS N05500

NICKEL-COPPER-ALUMINUM ALLOY

Electralloy's ECK500 is a precipitation hardening, Nickel-Copper-Aluminum alloy providing the excellent corrosion resistance of Electralloy's Ni-Cu EC400 with the added advantages of higher strength and hardness. The added aluminum and titanium provide this increased strength and hardness through precipitation of Ni₃(Ti, Al) during age hardening heat treatment.

The alloy also exhibits excellent low temperature properties. Tensile and yield strength increase as temperature decreases and toughness suffers almost no deterioration as temperature drops into cryogenic ranges.



TYPICAL APPLICATIONS

The combination of these qualities makes the alloy an excellent candidate for many marine environment shaft and pump applications.

Additionally, the alloy has shown to be resistant to sour gas environments making it a sound choice for applications in the oil and gas market.

CAPABILITY OFFERINGS:



BILLET

- Up to 14" RCS
- Up to 15" Round



ROUND BAR

- 1.00" OD up to 12" OD
- Larger sizes, please inquire



FORGED BLOCK

- 4.00" – 8.00" thick
- Up to 22" wide

SPECIFICATIONS



QQ-N-286G
ASTM B865
ASM 4676



NACE Standard MRO175



800-458-7273
www.electralloy.com

