



# AMPCO-TRODE® 46

Nickel-Aluminium-Bronze

## Classifications

AWS A5.6	: E CuNiAl
ASME SFA 5.6	: E CuNiAl

## Approvals

ABS Certified	: ERCuNiAl
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## Description

- AMPCO-TRODE® 46 nickel-aluminium bronze was developed for the welding of cast and wrought nickel-aluminium bronze
- AMPCO-TRODE® 46 is also recommended for weld repairing NiBral boat propellers
- Typical applications include ship fittings, power plant valves, intake screens, welding AMPCO® 45, oil recovery pumps, propeller gear housings, marine propulsion systems, ship propellers, piping systems and welding AMPCO® 483

## Typical Applications

Ship fittings, ship propellers, power plant valves, piping systems, intake screens, welding AMPCO® 483, welding AMPCO® 45, marine propulsion systems, propeller gear housings and oil recovery pumps.

## Limiting chemical composition of all-weld metal (%)

Cu*	Al	Fe	Ni	Mn	Si	Other
Rem.	8.50-9.50	3.0-6.0	4.0-6.0	0.5-3.50	1.5 max	0.5 max

\*Including silver

## Mechanical properties (nominal all-weld metal values)

	Yield Strength	Tensile Strength	Elongation	Area Reduction	BHN (3000 kg)
	(MPa)	(MPa)	(% in 51mm)	%	6.4 mm deposit
Example	400	683	25	22	187

## Sizes available

Diameter	(mm)	3.2	4.0
Length	(mm)	356	356

## Recommended welding parameters

Refer to AMPCO® welding products brochure or website for recommended welding parameters.