MIG Consumables

AMPCO-TRODE® 46



Nickel-Aluminium-Bronze

Classifications

AWS A5.7 : E CuNiAl

ASME SFA 5.7 : ER CuNiAl

MIL-E-23765/3A : MIL-CuNiAl

*Note: A weld test is required on each Heat/lot of material to conform to MIL-E23765/3A

Approvals

ABS Certified : ERCuNiAI

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	3.0-5.0	4.0-5.50	0.60-3.50	0.10 max	0.50 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	407	718	23	22	196			

Sizes available							
Diameter	(mm)	0.9	1.2	1.6			
Spool size	(kg)	0.68 & 13.6	0.68 & 13.6	13.6			

Recommended welding parameters

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

