OK Tigrod 19.40

An aluminium-bronze (CuAl8) rod for the GTAW of rolled and cast aluminium-bronze alloys. The alloy is noted for its high strength, good wear resistance and very good corrosion resistance, particularly in salt water. OK Tigrod 19.40 is normally welded with pure Ar as the shielding gas.

Classifications Wire Electrode:	SFA/AWS A5.7:ERCuAl-A1, EN ISO 24373:CuAl7

Alloy Type:	Alloyed copper (Cu + 8 % Al)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As welded	175 MPa	420 MPa	40 %

Typical Wire Composition %

Mn	Si	Al	Cu	Fe	Pb	Zn
0.3	0.1	7	Bal	0.4	0.01	0.1

OK Tigrod 19.49

Bare Cu-Ni rods for welding similar alloys, such as 90Cu10Ni, 80Cu20Ni and 70Cu30Ni alloys. The addition of nickel strengthens the weld metal and improves corrosion resistance, particularly to salt water. The alloy is used for the overlay welding of steels and is widely used for welding Cu-Ni components for desalination plants.

Classifications Wire Electrode:	SFA/AWS A5.7:ERCuNi, EN 14640:S Cu 7158 (CuNi30)
Approvals:	VdTÜV 11600

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type:	Alloyed copper (Cu + 30 % Ni)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As welded	180 MPa	350 MPa	40 %

Typical Wire Composition %

C	Mn	Si	Ni	Cu	Fe
0.02	0.7	0.05	31	Bal	0.5