

PRODUCT DATA SHEET

Metrode TIG 80CuNiAl

Metrode TIG 80CuNiAl is a 9% aluminium-5% nickel bronze filler wire for welding similar nickel aluminium bronzes. Metrode TIG 80CuNiAl filler wire deposits nickel aluminium bronze and is suitable for welding wrought and cast parent materials of similar composition. These alloys have high strength and resistance to stress corrosion, cavitation erosion, corrosion fatigue and attack by acids and chlorides. Metrode TIG 80CuNiAl should be shielded with pure argon but pure helium provides deeper penetration, higher travel speeds and allows preheat to be reduced.

Applications

Applications include corrosion resistant and spark resistant pumps, ship propellers, heat exchangers for offshore, marine and mining equipment.

Classifications

AWS	A5.7	ERCuNiAl
DIN	1733	SG-CuAl8Ni6
BS	2901Pt3	C26

Typical Chemical Analysis (Wire analysis)

% Copper	Bal.	% Nickel	4,0 - 5,5
% Aluminium	8,5 - 9,5	% Zinc	0,1 max
% Silicon	0,1 max	% Lead	0,02 max
% Manganese*	0,6 - 3,5	% Iron	3,0 - 5,0

* DIN has 1,0 - 2,0% manganese

Typical Mechanical Properties (All weld metal in the as welded condition)

0,2% Proof Stress	400 MPa
Tensile Strength	740 MPa
% Elongation on 4d	19
% Reduction of Area	23
Hardness	220 HV

Packing Data

Diameter (mm)	Consumable Length (mm)	Pack Mass (kg)	Item Number
2,4	1 000	2,5 (tube)	W077583

The information contained or otherwise referenced herein is presented only as typical without guarantee or warranty, and Afrox expressly disclaims any liability incurred from any reliance therein. No data is to be construed as recommended for any welding condition or technique not controlled by Afrox.

For more information contact the Afrox Customer Service Centre Tel: 0860 02 02 02
E-mail: customer.service@afrox.linde.com Website: www.afrox.com

