

PRODUCT DATA SHEET

Afrox Filmax CuAl-8 Afrox TIG CuAl-8

Afrox Filmax CuAl-8 and Afrox TIG CuAl-8 is an iron-free aluminium bronze. It is recommended for use as a surfacing metal for wear resistant surfaces having relatively light loads, for resistance to corrosive media such as salt or brackish water, and for resistance to many commonly used acids in varying concentrations and temperatures. This alloy is not recommended for joining, but is excellent for metal spraying and overlaying. Afrox Filmax CuAl-8 should be shielded with pure argon, pure helium or an argon/helium mixture (Coppashield®) for thicker sections. Flow rates of 10-18 l/min should be used.

Applications

Used to overlay on surfaces needing a bronze wearing surface.

Shipbuilding: Propellers, pumps, shafts and valves, bearings, main shafts

Chemical industry: Gate valves, sleeves, pipes, heat exchangers, and gear housings

Automotive industry: Maintenance of car parts and tools, bearings in general and galvanized steel sheets

Construction industry: Overlaying of aluminium bronze with steel base materials

Classifications

AWS	A5.7	ERCuAl-AI
DIN	1733	SG-CuAl8 (2.0921)
BS	2901Pt3	C28
EN	24373	Cu6100 CuAl17 (nearest)

Chemical Analysis (All weld metal)

% Copper	Bal.	% Zinc	0,02 max
% Aluminium	7,5 - 9,5	% Lead	0,02 max
% Silicon	0,2 max	% Iron	0,5 max
% Manganese	1,0 max	% Others Total	0,4 max
% Nickel	0,8 max		

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

Tensile Strength	390 - 450 MPa
% Elongation on 5d	45 max
Hardness	80 - 110 HB
Hardness (Work Hardened)	140 HB

Packing Data

MIG			TIG			
Diameter (mm)	Pack Mass (kg)	Item Number	Diameter (mm)	Pack Mass (kg)	Consumable Length (mm)	Item Number
1,0	15,0	W077594	2,4	5,0	1 000	W077726
1,2	15,0	W077595	-	-	-	-
1,6	15,0	W077596	-	-	-	-

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