SF-Cu

SAFRA
Al8

DESCRIPTION

The alloy SF-CuAl8 has been developed for welding copper alloys and for coatings on steel, steel castings, nickel alloys and for fixing works in artistic foundries. Excellent for metal spraying. This material offers a very high resistance to seawater-corrosion and to the most commonly used acids in any concentration and at any temperature they may be needed. High erosion resistance. Often used for welding galvanised steel sheets.

AWS A5.7/A5.7M
Er Cu Al-A1

EN ISO 24373
S Cu 6100 - Cu Al7

APPLICATION FIELDS

Shipbuilding: propellers, pumps, shafts and valves, bearings, main shafts. Chemical industry: gate valves, sleeves, pipes, heat exchangers, gear housings. Automotive industry: maintenance of car-parts and tools, bearings in general and galvanized sheets. Construction industry: welding and coating of aluminium–bronze with steel basis. Recommended for coating wearing metal.

CHEMICAL COMPOSITION
in % (m/m) [(a,b)] *as per EN ISO 24373*

Al	6,0 -8,5
Si	0,20
Mn	*
Ni incl. Co	*
Zn	0,2
Pb	0,02
Fe	*
Sn	*
Cu	remainder
	others total 0,4 [(c)]

(a) Single values shown in the table are maximum values, unless otherwise noted.
(b) Chemical analysis as per AWS A5.7/A5.7M upon request.
*(c) And * The total of all other elements, including those for which the maximum value or an asterisk (*) is shown, shall not exceed the value specified in "Others total".*

SHIELDING GASES FOR GMAW/GTAW

Argon: I1

Gas flow rate:
14-18 l/min

MECHANICAL CHARACTERISTICS

Tensile strenght Rm:	390 - 450 N/mm²
Elongation L=5d:	45%
Hardness:	80 - 110 HB
Hardness after work hardening:	140 HB
Conductivity:	8 m/OHM mm²

Mechanical properties quoted above are approximate values, intended for guidance only.

AVAILABLE SIZES*

MIG: 12,5 Kg – 15 Kg D300 or K300/KS300 spools
Diameter of the wire
0,8 mm - 0,9 mm - 1,0 mm - 1,2 mm - 1,6 mm - 2,0 mm - 2,4 mm

TIG carton box of 10 Kg o Kg 25 (x 1000 mm length)
Diameter of the rods
1,6 mm - 2,0 mm - 2,4 mm - 3,2 mm - 4,0 mm

* More diameters and packaging upon request

Safra
ALUMINIUM • COPPER ALLOYS WELDING WIRE