



SAFRA SF-Cu.Al.8

A.W.S. A5.7:
ER Cu Al- A1

DIN 1733:
SG-Cu Al 8
WERKS.2.0921

BS 2901 Pt.3: C 28
EN 14640: S Cu Al 8
S Cu 6100

DESCRIPTION

The alloy SF-Cu.Al.8 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.

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.

SHIELDING GASES FOR GMAW/GTAW

Argon: DIN 32526 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

TIG carton box of 10 kg o Kg. 25
(x 1000 mm length)

DIAMETER OF THE WIRE

0,8 mm - 1,0 mm - 1,2 mm - 1,6 mm - 2,0 mm - 2,4 mm

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

CHEMICAL COMPOSITION

Al	7,5 - 9,5
Si	<0,20
Mn	<0,50
Ni	<0,80
Zn	<0,20
Pb	<0,02
Fe	<0,50
Cu	remainder

OTHERS TOTAL <0,40