

ZINACOR® 850

UTILIZATION

ZINACOR® 850 is a zinc alloy wire made out of 85 percent of high purity zinc and 15 percent of aluminium. This wire is utilized in zinc spraying by means of a flame gun but when it comes to using an electrical arc gun, **ZINACOR® 851** is highly recommended.

CHARACTERISTICS

	Guaranteed purity	Standard specification	Maximum contents of impurities (%)						
			Si	Pb	Fe	Cd	Sn	Cu	Zn
Z 100	99,99%	NF EN 1179	-	0,0050	0,003	0,0050	0,001	0,002	-
Aluminium	99,70 %	ISO 209-1	0,1	-	0,20	-	-	0,01	0,07

ZINACOR® 850 results from two closely linked phases which combine the best properties of zinc and aluminium:

- the zinc-rich phase retains all the intrinsic characteristics of this metal and guarantees the essential cathodic protection of steel;
- the aluminium-rich phase provides the coating with a greater chemical and mechanical stability as well as a higher resistance to thermal shocks.

Physical characteristics

Density	5,73 g/cm ³
Melting point	440°C (824°F)
Electrical resistivity at 20°C	5,13 X 10 ⁻⁸ Ohm.m.

PACKAGING

The wires are available in diameters expressed in metric or English measures of 1,6 mm (.063") to 5 mm (.197"). Depending on the diameters, they are packed in coils or reels wrapped into a plastic film, in metal or fibre drums.

STORAGE

It is highly recommended to store in dry and well-ventilated rooms in order to avoid any damage caused by damp or dust.

USE OF ZINACOR® 850 WIRE AND COATING CHARACTERISTICS

The table below shows, by way of example, the results achieved in laboratory by spraying a wire of 3 mm diameter with the help of a conventional oxyacetylene flame gun.

Feed rate of the wire: 5.3 m/min. (Ø 3mm) Consumption: 12,9 kg/h	Thickness of the coating (µm)		
	80	120	160
Consumption of wire (g/m ²)	405	680	955
Weight deposited (g/m ²)	285	475	670
Covering rate (m ² /h)	32	19	13.5
Porosity of the coating (%)	From 15 to 18		

The good spraying efficiency resulting from the tests achieved on this alloy at the above mentioned feed rate of the wire greatly improves the sanitary conditions. Moreover, it underlines the saving made on material by using this alloy wire instead of pure zinc.

Environment	Recommended thickness (µm)	
	without sealing	with sealing
Rural	80	60
Urban	120	80
Industrial	-	120
Marine	-	120
Damp	-	120
Immersed or semi-immersed equipment	-	120

The suitable thickness to be adopted depends on the surrounding environment and the desired long-life. Fixing one's choice on the most suitable thickness to adopt according to environmental aggressiveness results from a wide experience of pure zinc spraying.

The indications supplied are the result of our own experience and cannot involve our responsibility.