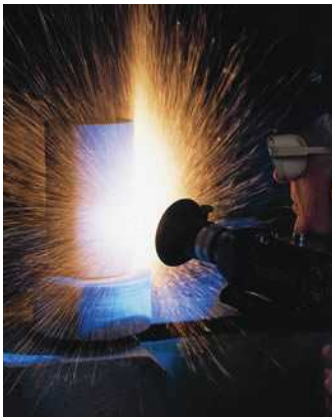




CORROSION CONTROL

Technical Datasheet

PROSION Al-Zn-In METAL SPRAYING



Al-Zn-In is cast and rolled to rod in a continuous homogenous process. The rod is then cold drawn to wire in large coils to the diameters needed for the thermal spray process.

For each coil of rod an independent real (actual) analysis is available, which shows how little variability there is in the process.

The key components in the material are indium and zinc, which act as ‘activators’ to stop the aluminium from becoming passive, thereby ensuring that the steel is always protected.

It has been demonstrated by chemical analyses that the properties of these activators in the thermal spraying layer are very close to those in the raw material – in other words, the material is projected on to the steel in the same composition as that of the wires, or close enough to allow the material to function in the required manner.

The wire is smooth and without defects so feeds easily into the spraying equipment. A fine residue of clean drawing oil facilitates this feeding process.

Composition	
Zn	4.5 - 5.5 wt. %
In	0.02 - 0.05 wt. %
Fe	0.1 wt. % max
Cu	0.03 wt. % max
Si	0.1 wt. % max
Mn	0.1 wt. % max
Al	Remainder
Technical	
Potential	-1.635V wrt Calomel in buffer solution pH 12
Density	2.95g/cm ³

Wire Diameter	Form	Weight
4.76mm (0.187")	Coil	25kg (50lb)
3.18mm (0.125")	Coil	25kg (50lb)
	Plastic reel	7kg (15.5lb)
2.50mm (0.098")	Coil	25kg (50lb)
	Drum	70kg (155lb)
	Plastic reel	7kg (15.5lb)
2.30mm (0.090")	Drum Plastic reel	70kg (155lb) 7kg (15.5lb)
2.00mm (0.079")	Drum Plastic reel	70kg (155lb) 7kg (15.5lb)