ALUMAR is a specialized steel wire with excellent corrosion resistance developed by KISWIRE.

Zn-Al(5%) is additionally coated on traditional Zn coated wire. This Zn-Al alloyed wire improves corrosion resistance and fatigue properties significantly.

Applications

Telecommunication cable, ACSR, Inner Cable for Automotive, Guard Cable and other various springs for multiple purposes

Advantages

- ALUMAR is a more cost-efficient alternative to stainless or Zn coated wire because of its 3-4 times better corrosion resistance than Zn coated wire.
- ALUMAR offers excellent coilability and productivity with its better ductility than traditional Zn coated wire.
- ALUMAR is environment-friendly without any hazardous heavy metals (Cr6+ etc).
 ALUMAR is found useful for multiple purposes from home appliance to automotive manufacturing.

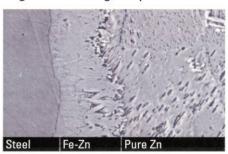




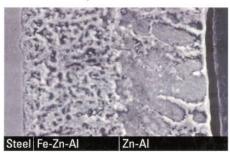


Technical data comparison between ALUMAR and regular Zn coated wire

Regular Zn coating composition

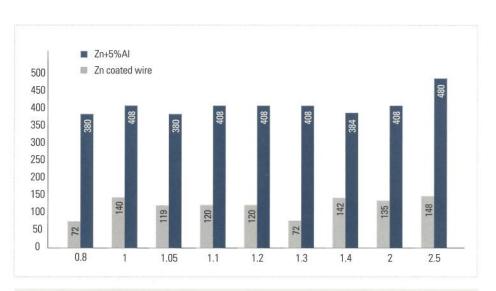


ALUMAR composition



- ALUMAR has shown better efficiency than Zn coated wire in the drawing process.
 ALUMAR also has excellent fatigue properties after coiling process.
- As compared to regular Zn coated wire, ALUMAR exhibits less hardness of the coating layer which enhances ductility.

Salt spray test data per diameter



ALUMAR provides 3-4 times better corrosion resistance than regular Zn coated wire.

Coating weight per diameter & Salt spray test

Diameter(mm)	Coating We	eight(g/m2)	Salt spray test(Hr)	Remarks	
	EN 10270-1	KISWIRE	out spray testim	Homarko	
0.80~1.00	Min 50	Min 50	Min 200		
1.01~1.50	Min 60	Min 60	Min 240	Coating weight & salt spray test stated on the table is minimum value	
1.51~2.00	Min 70	Min 70	Min 280		
2.01~2.50	Min 80	Min 80	Min 320	and subject to change	
2.51~3.00	Min 95	Min 95	Min 360	according to the	
3.01~3.50	Min 100	Min 100	Min 400	customer's requirements.	
3.51~4.00	Min 110	Min 110	Min 400		

Even with the cut ends of springs, the remaining aluminum of ALUMAR wire will allow the ends to achieve up to 80% of normal salt spray test results.

Available diameter range per specification

C	Grade	Diamet	Domosti		
Spec	Grade	Min	Max	Remark	
KS D 3510 (JIS G 3521)	SW-B	0.80	4.000	62~82Carbon	
	SW-C	0.80	4.000	72~82Carbon	
KS D 3556 (JIS G 3522)	PW-1 (SWP-A)	0.80	4.000	82Carbon	
	PW-2 (SWP-B)	0.80	3.500	82Carbon	
	Grade SL (Grade A)	0.80	4.000	62~82Carbon	
	Grade SH (Grade B)	0.80	4.000	72~82Carbon	
EN 10270-1 (DIN 17223 P-1)	Grade SH (Grade C)	0.80	3.500	82Carbon	
	Grade DM	0.80	4.000	72~82Carbon	
	Grade DH (Grade D)	0.80	3.500	82Carbon	
ASTM A 227	Class 1	0.80	4.000	62~82Carbon	
A31M A 227	Class 2	0.80	4.000	72~82Carbon	
ASTM A 228	PW-2	0.80	3.500	82Carbon	
	Range 1	0.80	4.000	62~82Carbon	
AS 1472	Range 2	0.80	4.000	72~82Carbon	
	Range 3	0.80	3.500	82Carbon	

Overview of packing options

Packing Standard

Wire size (mm)	Block	Coil			Carrier		Spool (Bobbin)		Reelless		
		Weight (Kg)	ID (mm)	OD (mm)	H (mm)	Weight (Kg)	D×H×W (mm)	Weight (Kg)	Flange (mm)	Weight (Kg)	Code
0.80~0.85 14	1.0"	80	270	420	230	-	*	50	355 (DIN 355)	450	Z2
	14							200	560(DIN 560)		
0.86~1.39 1	16"	100	280	500	230	450	300×950×600	200	560 (DIN 560)	450	Z2
	10							450	760 (DIN 760)		
1.40~1.80	20"	100~200	400	600	300	450	380×950×800	450	760 (DIN 760)	450	Z2
1.80~2.50	24"	150~300	540	800	500	1000	510×1250×950	-	-	450	Z2
2.30~3.50	27"	150~500	540	800	500	1000	600×1250×980	12		700~1000	Z3
3.51~4.00	30"	150~500	600	850	500	1000	600 x 1250 x 980	-	- 1	700~1000	Z3

