

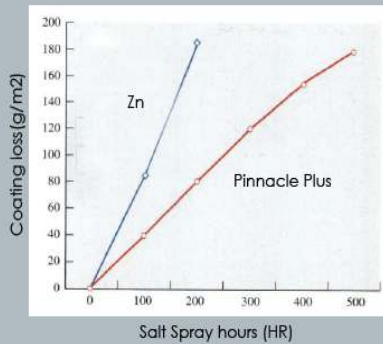


**Alps Pinna cle Plus(P+) is a special alloy finish that is highly corrosion and wear resistant. P+ is a finish that is available for wire ropes that are used in corrosion common applications.**

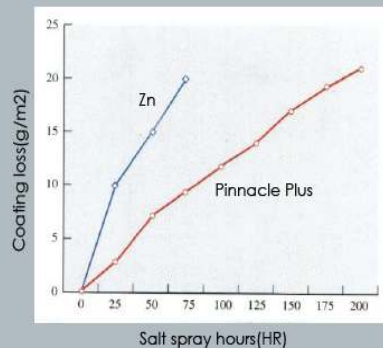
The attributes of P+ have allowed for longer extended working periods than galvanized and is a popular choice for the Gas, Oil, Offshore and Marine Industries.

**Pinna cle Plus(P+) has over two times the resistance to corrosion than normal hot dipped zinc coating.**  
The superiority of corrosion resistance is to specially perform without any limit of environments.

### Corrosion Resistance



Salt spray test result for 1mm wire



Salt spray test result for 5mm automotive cable

### Pinna cle Plus (P+)



The rust occurrence for 1mm zinc galvanized wire after 200 hours.



The rust occurrence for 1mm Pinna cle Plus(P+) wire after 200 hours.

### Mechanical Properties

The mechanical properties of Pinna cle Plus (P+) are similar to those of zinc galvanized wire.

	Normal Zn coating	Pinna cle Plus (P+)
T S(Kg/mm <sup>2</sup> )	108	112

### Appearance

The Pinna cle Plus finish, after-draw ability is similar to that of Zinc coating wire. The surface of P+ is dark grey, no luster. Accordingly, it doesn't have the diffused reflection.

**Pinna cle Plus(P+) is applicable to all kinds of steel wire products;**  
**Wire Rope**

Construction	Range of Product	Construction	Range of Product
6x7	6.0mm - 26.0mm	6x19	10.0mm - 40.0mm
6x24	12.0mm - 40.0mm	6x37	10.0mm - 40.0mm
6x19(s)	8.0mm - 32.0mm	6x25(F)	8.0mm - 40.0mm
6x26(ws)	8.0mm - 34.0mm	6x36(ws)	8.0mm - 40.0mm
8x19(s)	10.0mm - 40.0mm	8x36(ws)	10.0mm - 40.0mm

### Control Cables

Type	Range of Product	Construction
Strand Type	1.0mm - 10.5mm	1x7, 3+9, 1x19
Rope Type	1.0mm - 5.0 mm	7x7, 8x7+1x19, 7x19