

表面處理  
Surface Treatment

對稀土磁鐵做優良的表面處理可以增加可靠性及信賴性，以達到長使用壽命之要求。  
Excellent surface treatment of rare earth magnets can increase reliability and trustworthiness to achieve long service life.

序號 No	鍍層 Plating	鍍厚 Plating thickness	性能/ Properties						潤濕性 Wettability
			鹽霧 Salt spray test	PCT	濕熱 Humidity resistance	結合強度 Binding strength	絕緣性 Insulation	高溫減磁 High temperature reflux loss	
1	酸洗加環氧 pickling plus	20-30μm	240H	24H	500H	良/Good	優/Very good	0	33
2	磷化加環氧 Phosphate plus epoxy	20-30μm	500H	24H	500H	好/Fair	優/Very good	3~5%	
3	銅加環氧 Copper plus epoxy	20-30μm	500H	48H	500H	良/Good	優/Very good	5%以下 < 5%	
4	鋁加環氧 Aluminum plus epoxy	20-30μm	500H	96H	500H	優/Very good	優/Very good	0	
5	鋅鋁塗層 Zinc-aluminum coating	15-30μm	200H	48H	200H	良/Good	一般/OK	1	38
6	噴塗環氧 Spray epoxy	15-30μm	200H	96H	200H	一般/OK	優/Very good	0	38
7	鍍鉻 chromized 彩膜 Color film	< 10μm	72H	極差/Poor	200H 白鏽/white rust	良/Good	差/Bad	1%以下 < 1%	38
8			48H		200H 白鏽/white rust	良/Good			
9	單鎳 Single nickel	10-30μm	12H	96H	500H	良/Good	差/Bad	3%以下 < 3%	36
10	掛鍍銅鎳 Rack Copper Nickel Plating		24H			良/Good		5%以下 < 5%	
11	滾鍍銅鎳 Barrel Copper Nickel Plating		48H			良/Good		1%以下 < 1%	
12	高溫減磁 High temperature demagnetization		72H			好/Fair			
13	亮鎳 Bright nickel		72H			良/Good			
14	雙層鎳 Double nickel		200H			200H			
15	化學鍍 Chemical plating	10-30μm	200H	200H	好/Fair	好/Fair	好/Fair	好/Fair	
16	磷化 Phosphorization	< 5μm	差/Bad(0.25H)	差/Bad	24H	好/Fair	較差/ Rather bad	5%以下 < 5%	33
17	新磷化 New phosphorization	< 3μm	差/Bad(0.25H)	差/Bad	24H	好/Fair		1%以下 < 1%	
18	酸洗鈍化 Pickling passivation	< 2μm	差/Bad(0.25H)	差/Bad	差/Bad (2H)	好/Fair		0	37
19	新酸洗鈍化 New pickling passivation	< 2μm	差/Bad(0.25H)	差/Bad	24H	良/Good		0	33
20	藍色轉化膜 Blue conversion coating	< 3μm	差/Bad(0.25H)	差/Bad	24H	好/Fair		0	38
21	鍍鋁 Aluminum plating	5-25μm	500H	200H	200H	優/Very good	差/Bad	0	38