

粉末用高絶縁・高耐食性コーティング剤

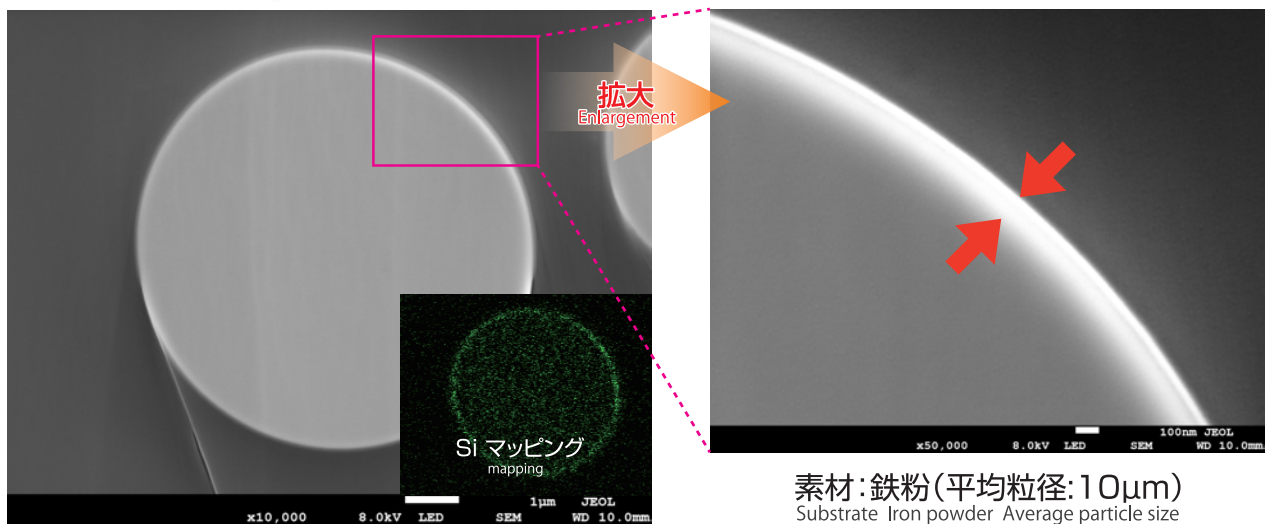
Coating Solution for High Insulating Property and High Corrosion Resistance (To powder)

Protector PW-S

- 金属等の粉末に対して液相反応にてシリカコーティングが可能
Make silica-based coat to powder by liquid phase reaction
- 膜厚のコントロールが容易
Control film thickness easily
- 金属粉末に優れた絶縁性・耐食性を付与
Give high insulating property and high corrosion resistance to metallic powder

液相反応による粉末への均一なコーティング

Realize uniform coating to powder by liquid phase reaction



処理粉末の断面SEM像とEDS分析
Cross-sectional view and EDS analysis after treatment

素材：鉄粉(平均粒径:10 μ m)
Substrate Iron powder Average particle size
膜厚：約100nm
Thickness About

優れた絶縁性

Great insulation

処理 Treated product	未処理 Untreated
>1M Ω	60 Ω

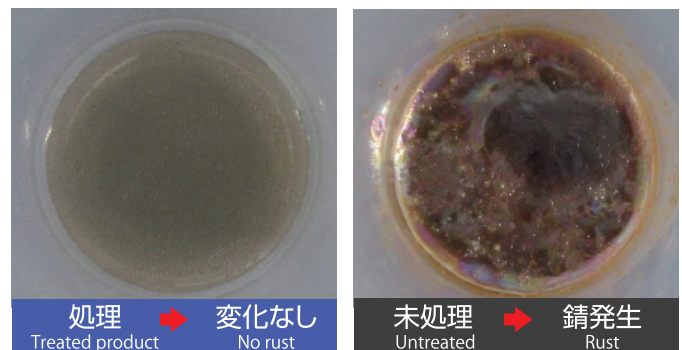
※試料サイズ：直径5mm×厚さ4mmの円柱状
Sample size diameter thickness column shape

各鉄粉に2wt%エポキシ樹脂を加えた
圧粉成形体の抵抗値を測定

Measure electrical resistance value of compression-molded powder
(Substrate: 98% of iron and 2% epoxy resin by weight)

優れた耐食性

Great corrosion resistance



5%食塩水に浸漬, 168h大気下に放置(膜厚50nm)
Dip into 5% salt water and left in the atmosphere for 168h Film thickness

素材：鉄粉(平均粒径:10 μ m)
Substrate Iron powder Average particle size

処理方法

Process

