

氧化鎳 DYSPROSIUM OXIDE

分子式/Formula: Dy₂O₃

外觀/Appearance: 白色或淡黃色粉末/White or slight yellow powder

用途/Use: 用作制取金屬鎳的原料，玻璃、釹鐵硼永磁體的添加劑，還用于金屬鹵素燈、磁光記憶材料、釹鐵或釹鋁石榴石、原子能工業中。/It is used as the raw material in making of metal dysprosium, as the additives of glass and Nd-Fe-B permanent magnets, and it is also applied in the industry of metal halide lamps, magneto-optic memory materials, YIG or YAG, also it is used in atomic energy industries.

項目 Items	規格 Specifications					典型數據 Typical analyses	分析儀器 Analytical instruments
牌號 Code	Dy ₂ O ₃ -015	Dy ₂ O ₃ -020	Dy ₂ O ₃ -025	Dy ₂ O ₃ -030	Dy ₂ O ₃ -035		
REO %	≥ 99	≥ 99	≥ 99	≥ 99	≥ 99		
純度與相關稀土雜質 purity and relative RE impurities							
Dy ₂ O ₃ / REO %	≥ 95	≥ 99	≥ 99.5	≥ 99.9	≥ 99.95		
Gd ₂ O ₃ / REO %	≤ 5	≤ 1	≤ 5	≤ 0.01	≤ 0.005	0.01	①
Tb ₄ O ₇ / REO %				≤ 0.04	≤ 0.01	0.02	①
Ho ₂ O ₃ / REO %				≤ 0.03	≤ 0.01	0.01	①
Er ₂ O ₃ / REO %					≤ 0.01	0.01	①
Y ₂ O ₃ / REO %				≤ 0.01	≤ 0.01	0.01	①
Yb ₂ O ₃ / REO %				≤ 0.01	≤ 0.01	0.01	①
非稀土雜質 Non-RE impurities							
Fe ₂ O ₃ %	≤ 0.02	≤ 0.01	≤ 0.005	≤ 0.0015	≤ 0.0015	0.001	
SiO ₂ %	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.006	≤ 0.006	0.005	
CaO %	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.007	≤ 0.007	0.004	②
CuO %		≤ 0.005	≤ 0.005	≤ 0.0005	≤ 0.0005		②
NiO %		≤ 0.001	≤ 0.001	≤ 0.001	≤ 0.001		②
PbO %		≤ 0.001	≤ 0.001	≤ 0.001	≤ 0.001		②
Cl ⁻ %		≤ 0.05	≤ 0.03	≤ 0.006	≤ 0.006	0.005	
灼減 Loss on ignition (1000℃, 1hour) %	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1		

注 Notes:

- ① JY Ultima C 智能同時/順序型 ICP 光譜儀/JY Ultima Intelligent ICP Sequential/Simultaneous Spectroanalyzer
- ② PE-3100 原子吸收分光光度計/Atomic absorption spectrophotometer