

氧化鐳 PRASEODYMIUM OXIDE

分子式/Formula: Pr_6O_{11}

外觀/Appearance: 黑色或褐色粉末/Black or brown powder

用途/Use: 主要用作陶瓷著色劑、金屬鐳、鈔鐳鈷、鐳鐵硼的原料。/It is mainly used as the raw material in making ceramic colorants, metal praseodymium, as well as magnetic materials as Sm-Pr-Co, Pr-Fe-B, etc.

項目 Items	規格 Specifications			典型數據 Typical analyses	分析儀器 Analytical instruments
牌號 Code	Pr_6O_{11} -025	Pr_6O_{11} -030	Pr_6O_{11} -035		
REO %	≥ 99	≥ 99	≥ 99		
純度與相關稀土雜質 purity and relative RE impurities					
Pr_6O_{11} / REO %	≥ 99.5	≥ 99.9	≥ 99.95		
La_2O_3 / REO %	≤ 0.01	≤ 0.005	≤ 0.005	≤ 0.005	①
CeO_2 / REO %	≤ 0.05	≤ 0.02	≤ 0.01	≤ 0.01	①
Sm_2O_3 / REO %	≤ 0.01	≤ 0.005	≤ 0.005	≤ 0.005	①
Nd_2O_3 / REO %	≤ 0.4	≤ 0.05	≤ 0.01	≤ 0.01	①
Y_2O_3 / REO %	≤ 0.01	≤ 0.005	≤ 0.005	≤ 0.005	①
非稀土雜質 Non-RE impurities					
Fe_2O_3 %	≤ 0.01	≤ 0.005	≤ 0.005	0.004	②
SiO_2 %	≤ 0.01	≤ 0.01	≤ 0.01	0.0049	
CaO %	≤ 0.01	≤ 0.01	≤ 0.01	0.0065	②
灼減 Loss on ignition (1000°C, 1hour) %	≤ 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