

氧化鈔 SAMARIUM OXIDE

分子式/Formula: Sm_2O_3

外觀/Appearance: 白色略帶淡黃色粉末/White powder, with light yellowish shade

用途/Use: 主要用于制作金屬鈔, 鈔鈷系永磁材料、電子器件和陶瓷電容器等。/It is used for making metallic samarium, Sm-Co permanent magnetic materials, electric devices and ceramic capacitors, etc.

項目 Items	規格 Specifications				典型數據 Typical analyses	分析儀器 Analytical instruments
牌號 Code	Sm_2O_3 -02	Sm_2O_3 -025	Sm_2O_3 -03	Sm_2O_3 -016		
REO %	≥ 99	≥ 99	≥ 99	≥ 99		
純度與相關稀土雜質 purity and relative RE impurities						
Sm_2O_3 / REO %	≥ 99	≥ 99.5	≥ 99.9	≥ 96		
Pr_6O_{11} / REO %	≤ 1	≤ 0.5	≤ 0.1	≤ 4	< 0.04	①
Nd_2O_3 / REO %					< 0.01	①
Eu_2O_3 / REO %					< 0.01	①
Gd_2O_3 / REO %					< 0.03	①
Y_2O_3 / REO %					< 0.03	①
非稀土雜質 Non-RE impurities						
Fe_2O_3 %	≤ 0.01	≤ 0.05	≤ 0.001	≤ 0.05	0.001	②
SiO_2 %	≤ 0.01	≤ 0.01	≤ 0.005	≤ 0.05	0.003	
Cl %	≤ 0.1	≤ 0.05	≤ 0.015	≤ 0.1	0.004	②
CaO %	≤ 0.02	≤ 0.01	≤ 0.005	≤ 0.03		
灼減 Loss on ignition (1000°C, 1hour) %	≤ 1	≤ 1	≤ 1	≤ 1	0.5	

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