

氧化鋁 LANTHANUM OXIDE

分子式/Formula: La_2O_3

外觀/Appearance: 白色粉末/White powder

用途/Use: 主要用于制造光學玻璃、光導纖維、高頻材料及發光材料。/It is mainly used in manufacturing of optical glasses, optical fibers, high frequency materials and fluorescent materials.

項目 Items	規格 Specifications			典型數據 Typical analyses	分析儀器 Analytical instruments
牌號 Code	La_2O_3 -05A	La_2O_3 -045C	La_2O_3 -045D		
REO %	≥ 99	≥ 99	≥ 99		
純度與相關稀土雜質 purity and relative RE impurities					
La_2O_3 / REO %	≥ 99.999	≥ 99.995	≥ 99.995		
CeO_2 / REO %	≤ 0.0001	≤ 0.0003	≤ 0.001	< 0.00005	
Pr_6O_{11} / REO %	≤ 0.0001	≤ 0.0005	≤ 0.001	< 0.0005	①
Nd_2O_3 / REO %	≤ 0.0001	≤ 0.0005	≤ 0.001	< 0.0005	①
Sm_2O_3 / REO %	≤ 0.0005	≤ 0.001	≤ 0.001	< 0.001	①
Y_2O_3 / REO %	≤ 0.0001	≤ 0.001	≤ 0.001	< 0.0001	①
Tb_4O_7 /REO %	≤ 0.0001				①
非稀土雜質 Non-RE impurities					
Fe_2O_3 %	≤ 0.0001	≤ 0.0003	≤ 0.0005	0.0001	
SiO_2 %	≤ 0.005	≤ 0.005	≤ 0.005	0.0016	
CaO %	≤ 0.005	≤ 0.005	≤ 0.005	0.001	②
CuO %	≤ 0.0002	≤ 0.0002	≤ 0.0005	< 0.0002	②
NiO %	≤ 0.0001	≤ 0.0001	≤ 0.001	< 0.0001	②
PbO %	≤ 0.001	≤ 0.005	≤ 0.005	< 0.001	②
Cl %	≤ 0.03	≤ 0.003	≤ 0.05	0.03	
灼減 Loss on ignition (1000°C, 1hour) %	≤ 0.5	≤ 0.5	≤ 1	≤ 0.26	

注 Notes:

- ① ICP-AES 電感耦合等離子體原子發射光譜儀/Induction coupler plasma atomic emission spectrograph
- ② PE-3100 原子吸收分光光度計/Atomic absorption spectrophotometer