

Technical Data Sheet

 **NAEWAI CORPORATION**

A-708, Hypex, 240 Pangyoyeok-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea
Phone: 82-70-4010-9233
E-mail: info@naewai.com

Samarium oxide

Product Identification

Product name : Samarium oxide
Chemical Formula : Sm_2O_3
CAS No. : 12060-58-1

Physical and Chemical Properties

| Property | Value / Description |
|---------------------|--|
| Purity | 99.5% min |
| Physical State | Powder |
| Color | White |
| Density | 8.35 g/cm ³ at 25 °C |
| Melting Point | 2335 °C |
| Boiling Point | 4118 °C |
| Solubility in Water | 68 ug/l (25 °C) |
| Stability | Stable under normal conditions |
| Reactivity | Reacts readily with mineral acids to form samarium salts |

Applications

Optical and infrared absorbing glass to absorb infrared radiation, neutron absorber in control rods for nuclear reactors, catalyst for dehydration of primary alcohols to aldehydes and ketones, preparation of other samarium salts, ceramics, electronics, and optics industries

Packing

25kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.