

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	47224
<b>Lot Number</b>	003344-6911-032723
<b>Product</b>	<b>Samarium oxide micron powder (3-5 micron)</b>
<b>CAS Number</b>	12060-58-1
<b>Molecular Formula</b>	Sm <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	348.72

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<b>Appearance</b>	Off-white powder
<b>Density</b>	True density : 8.347 g/cm <sup>3</sup>
<b>Mesh Size</b>	APS 3 - 5 micron
<b>Related Substances</b>	Rare earth content : Pr <sub>6</sub> O <sub>11</sub> : 95 ppm, Eu <sub>2</sub> O <sub>3</sub> : 109 ppm, Nd <sub>2</sub> O <sub>3</sub> : 155 ppm Gd <sub>2</sub> O <sub>3</sub> : 113 ppm, Y <sub>2</sub> O <sub>3</sub> : 86 ppm Non-rare earth content : Fe <sub>2</sub> O <sub>3</sub> : 34 ppm, SiO <sub>2</sub> : 103 ppm, CaO : 124 ppm Chloride : 99 ppm
<b>Assay by titration</b>	99.9%
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information  For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager