

**EXPORT LICENSE**

NRC FORM 250  
(10-07)

**UNITED STATES OF AMERICA**  
Nuclear Regulatory Commission  
Washington, D.C. 20555

NRC LICENSE NO.: XSOU8774/06

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NRC DOCKET NO.: 11005173

LICENSE EXPIRES January 1, 2027


Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to the licensee authorizing the export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein.

<p align="center">LICENSEE</p> <p><b>Materion Advanced Chemicals</b> 407 North 13<sup>th</sup> Street Milwaukee, WI 53233</p> <p>Attn: Noreen Atkinson</p>	<p align="center">ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">See Page 2</p>
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<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p><b>New Metals and Chemicals Corp.</b> Kyobashi TD Building 5F 2-5, 1-Chome Kyobashi, Chuo-Ku Tokyo, 104-0031 Japan</p> <p>(Agent for transport purposes only)</p>	<p align="center">OTHER U.S. PARTY(IES) TO EXPORT</p> <p align="center">NONE</p>
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APPLICANT'S REFERENCE NO.: XSOU8774-Renewal      ULTIMATE DESTINATION: Japan

QUANTITY	DESCRIPTION OF MATERIALS OR FACILITIES
	<p>This license is amended to: 1) change the licensee point of contact and 2) change the date of expiration from January 1, 2017, to January 1, 2027.</p> <p>The licensee is authorized to export a maximum, cumulative total not to exceed 50,000 kilograms (kg) of thorium contained in 60,000 kg of thorium oxides, nitrates, and other compounds for non-nuclear end uses.</p> <p>All other conditions remain the same.</p> <p align="center">//////////////////////////////////////END//////////////////////////////////////</p>

<p>Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.</p> <p>This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.</p>	<p align="center">THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</p> <p>SIGNATURE: </p> <p>NAME AND TITLE: David L. Skeen, Deputy Director Office of International Programs</p> <p>DATE OF ISSUANCE: <b>JAN 17 2017</b></p>
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**ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES):**

1. Toshiba Materials Co., Ltd.  
8, Shin Sugita-Cho, Isogo-Ku  
Yokohama City  
Kanagawa Prefecture 235-8522  
Japan

(Ultimate End Use – Material will be used for TIG welding, a material in electrodes for electric discharging lamps, and coil for microwave magnetrons [non-nuclear end use]).

2. Lighting Company  
Matsuhita Electronics Industrial Co., Ltd.  
1-1 Saiwai-Cho  
Takatsuki City  
Osaka Prefecture 569-1193  
Japan

(Ultimate End Use – Material will be used in the production of thoriated tungsten rods [non-nuclear end use]).

3. Sumitomo Electric Industries, Ltd.  
1-3-3 Shimaya, Konohana-Ku  
Osaka City  
Osaka Prefecture, 554-0024  
Japan

(Ultimate End Use – Material will be used for AR coating for CO2 laser optics [non-nuclear end use]).

4. GS Yuasa International, Ltd.  
1, Inobaba-Cho, Nishinosho, Kisshoin  
Minami-Ku  
Kyoto City, 601-8520  
Japan

(Ultimate End Use – Material will be used in the production and R&D for various kinds of discharge lamps [non-nuclear end use]).

5. Kishida Chemical Co., Ltd.  
1-22 Honchobashi, Chou-Ku  
Osaka City  
Osaka Prefecture, 540-0029  
Japan

(Ultimate End Use – Material will be used to quantitatively analyze for fluorine constituent in hydrogen fluoride and other fluorides [non-nuclear end use]).