



UNISON Industries  
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## **CERTIFICATE FOR SEALED RADIOACTIVE SOURCE**

**Model number:** 9047770-2 Revision F  
(OEM Customer P/N 3051402-2)

**Serial number:** All serial numbers, based on type testing and conformance to ISO 9001 and AS9100 certified quality systems.

**Radionuclide:**  $^{85}\text{Kr}$

**Description:** Gas mixture containing  $^{85}\text{Kr}$  in sealed glass/metal envelope within the ignition exciter.

**ISO Classification:** ISO/99/C11111

**Estimated content activity:** 215.4 kBq (two spark gaps, 107.7 kBq each)

**Radiation output:**  
**Quantity measured:** Air kerma rate at 0.1 m from the source  
**Results:** < 0.002  $\mu\text{Gy/hr}$

**Test for freedom from surface contamination:** N/A (inert gas)

**Test for freedom from leakage:**  
**Method:** Helium Test per ISO 9978, Section 6.1.1 and Hot-liquid bubble test per Section 6.2.2  
**Results:** Passed  
**Date:** On file at Unison for each serial number

**Attestation:** Sealed radioactive source (spark gap) from all ignition exciters returned to Unison Industries will be recycled in accordance with applicable regulations.

Bruce D. Markert  
Consulting Engineer and Radiation Safety Officer