

## ISO/ASTM 51940:2004, Guide for dosimetry for sterile insects release programs



ISO/ASTM 51940:2004 outlines dosimetric procedures to be followed for the radiation sterilization of live insects for use in pest management programs. The procedures outlined in ISO/ASTM 51940:2004 will help ensure that insects processed with ionizing radiation from gamma, electron, or X-ray sources receive absorbed doses within a predetermined range. Information on effective dose ranges for specific applications of insect sterilization, or on methodology for determining effective dose ranges, is not within the scope of ISO/ASTM 51940:2004. ISO/ASTM 51940:2004 covers dosimetry in the irradiation of insects for these types of irradiators: self-contained dry-storage  $^{137}\text{Cs}$  or  $^{60}\text{Co}$  irradiators, large-scale gamma irradiators, and electron accelerators. The absorbed dose for insect sterilization is typically within the range of 20 Gy to 600 Gy. ISO/ASTM 51940:2004 refers, throughout the text, specifically to reproductive sterilization of insects. It is equally applicable to radiation sterilization of invertebrates from other taxa (for example, Acarina, Gastropoda) and to irradiation of live insects or other invertebrates for other purposes (for example, inducing mutations), provided the absorbed dose is within the range specified. ISO/ASTM 51940:2004 also covers the use of radiation-sensitive indicators for the visual and qualitative indication that the insects have been irradiated. ISO/ASTM 51940:2004 does not purport to address all of the safety concerns, if any, associated with its use. This title may contain less than 24 pages of technical content.

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Superseded By: ISO/ASTM 51940:2004 **international iso/astm standard 51940 - SAI Global InfoStore** DESIG: ISO/ASTM 51940 2004(E) ^TITLE: Standard Guide for Dosimetry for for the radiation sterilization of live insects for use in pest management programs. Sterile Insect Technique, where large numbers of sterile insects are released **ISO/ASTM 51940:2013 - Standards New Zealand** Guide for dosimetry for sterile insects release programs. ISO/ASTM 51940:2013 outlines dosimetric procedures to be followed for the radiation-induced **Guide for dosimetry for sterile insect release pro..INIS - IAEA** Note the standard entitled Guide for dosimetry for sterile insects release programs ISO/ASTM 51940:2004. isocline. A line representing all points satisfying a **ISO/ASTM 51940:2004 - Guide for dosimetry for sterile** - 17.240 - Radiation measurements Including dosimetry. Radiation protection ISO/DIS 4037-1 [Under development] .. ISO/ASTM 51026:2015 . 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