

Radiation Chemistry and Environmental Qualification Department Integrity and Technical Engineering Division



RADIATION TECHNOLOGIES

Radiation ageing of cable samples at low dose rates in Panoza irradiation facility

Value for customers

- Irradiation facilities equipped with cobalt sources, offering a large variability of parameters in terms of dose rate, temperature, and atmosphere.
- Possibility to monitor the functional parameters of tested equipment during irradiation
- Routine dosimetry based on alanine dosimeters evaluated by EPR (electron paramagnetic resonance) spectroscopy

Applications

- Testing of radiation stability of components in nuclear facilities and space
- Long-term monitoring of operation doses and dose rates in nuclear facilities
- Innovation in industrial production of application-oriented polymeric materials
- Mapping of gamma radiation fields and fields and accelerated electrons
- Sterilization of medical equipment

Contact details

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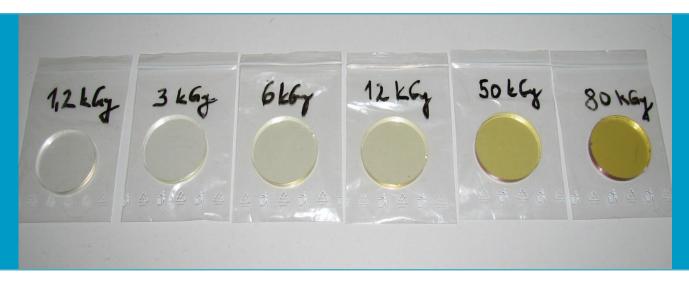
www.ujv.cz

What we offer

- Radiation sterilization of medical, healthcare and pharmaceutical materials
- Radiation modification of polymeric materials and composites
- Testing of radiation stability of components designated for operation conditions of nuclear power plants or space
- Dosimetry services for determination of optimal doses in radiation technology applications

Our references

- Sterilization of healthcare materials in ÚJV Řež, a. s.
- Radiation modification of polyethylene (PE) pipes for hot water distribution
- Determination of the radiation resistance of electronic components for customers around the world
- Dosimetry of radiation fields in production lines for radiation cross-linking of polymeric industrial products (cable insulations, PE pipes etc.)
- Accredited testing laboratory



Radiation induced colour change of plexiglass – testing the radiation resistance of camera system and lights for reactor pressure vessel inspections