

## Available radiation qualities

Reference date for the maximum rate: August 1st, 2024

<b>Gamma emitting sources</b>	<b>Energy (keV)</b>	<b>Air kerma rate (maximum rate @1m)</b>	
<sup>60</sup> Co	1250	0.03 - 15500	mGy/h
<sup>137</sup> Cs	662	0.0003 - 95	mGy/h
<sup>241</sup> Am	59.5	2.7 - 54	μGy/h
<b>Beta emitting sources</b>	<b>Energy (keV)</b>	<b>Dose rate (Hp(0.07))</b>	
<sup>85</sup> K	687	49,2	mSv/h (@30cm)
<sup>90</sup> Sr/ <sup>90</sup> Y	546/2273	5.1	mSv/h (@30cm)
<sup>90</sup> Sr/ <sup>90</sup> Y	546/2273	130,8	mSv/h (@30cm)
<sup>147</sup> Pm	225	2,0	mSv/h (@20cm)
<b>Neutron emitting sources</b>	<b>Energy (keV)</b>	<b>Dose rate (H*(10)) (maximum rate @50 cm)</b>	
<sup>252</sup> Cf	2130	405	μSv/h
<sup>252</sup> Cf	2130	1127	μSv/h
<sup>241</sup> Am <sup>9</sup> Be	4100	32,8	μSv/h
<sup>241</sup> Am <sup>9</sup> Be	4100	102	μSv/h
<sup>241</sup> Am <sup>9</sup> Be	4100	1020	μSv/h
<b>Planar sources (radiation quality)</b>	<b>Energy (keV)</b>	<b>Surface emission rate</b>	
<sup>90</sup> Sr/ <sup>90</sup> Y (beta)	546/2273	11.8	1/(s cm <sup>2</sup> )
<sup>36</sup> Cl (beta)	710	5.2	1/(s cm <sup>2</sup> )
<sup>14</sup> C (beta)	156	3.6	1/(s cm <sup>2</sup> )
<sup>241</sup> Am (alpha)	5486	5.5	1/(s cm <sup>2</sup> )
<sup>60</sup> Co (beta)	318	1	1/(s cm <sup>2</sup> )
<sup>239</sup> Pu (alpha)	5156	4.9	1/(s cm <sup>2</sup> )
<sup>137</sup> Cs (beta)	512	5.4	1/(s cm <sup>2</sup> )

**X-ray radiation qualities available in a separate table**