

File:Radiation spreadsheet.jpg

| Radiation background | | Protection by shielding | | | | | | | | | | | |
|----------------------|-------|--------------------------|------|-------|-------|-------|-----------------|--------------------------|-----|-------|-------|-------|-------|
| | | Beta radiation | | | | | Gamma radiation | | | | | | |
| No. | np100 | Thickness [mm] | | 0.6 | 0.7 | 0.7 | Thickness [mm] | | 0.6 | 0.7 | 0.7 | | |
| 1 | 49 | No. | none | Al | Fe | Cu | No. | none | Al | Fe | Cu | | |
| 2 | 42 | 1 | 26 | 3 | 4 | 3 | 1 | 13 | 8 | 8 | 7 | | |
| 3 | 41 | 2 | 24 | 11 | 2 | 5 | 2 | 15 | 19 | 9 | 3 | | |
| 4 | 38 | 3 | 24 | 11 | 7 | 2 | 3 | 23 | 21 | 12 | 5 | | |
| 5 | 43 | 4 | 20 | 6 | 5 | 6 | 4 | 18 | 9 | 7 | 9 | | |
| 6 | 56 | 5 | 21 | 6 | 4 | 3 | 5 | 14 | 17 | 12 | 6 | | |
| 7 | 42 | Average | | 23 | 7.4 | 4.4 | 3.8 | Average | | 16.6 | 14.8 | 9.6 | 6 |
| 8 | 33 | Corrected | | -20.8 | -36.4 | -39.4 | -40 | Corrected | | -27.2 | -29 | -34.2 | -37.8 |
| 9 | 60 | Transmittance | | | 175% | 189% | 192% | Transmittance | | | 107% | 126% | 139% |
| 10 | 34 | Absorbance | | | -0.24 | -0.28 | -0.28 | Absorbance | | | -0.03 | -0.10 | -0.14 |
| Average | | Abs. co-efficient [mm-1] | | | -0.41 | -0.40 | -0.41 | Abs. co-efficient [mm-1] | | | -0.05 | -0.14 | -0.20 |
| | | Half-thickness [mm] | | | -0.74 | -0.76 | -0.74 | Half-thickness [mm] | | | -6.49 | -2.12 | -1.47 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | Protection by distance | | | | | | | | | | | |
| | | Beta radiation | | | | | Gamma radiation | | | | | | |
| | | No. | 4 | 8 | 12 | 16 | No. | 4 | 8 | 12 | 16 | | |
| | | 1 | 24 | 15 | 11 | 5 | 1 | 16 | 9 | 6 | 5 | | |
| | | 2 | 22 | 19 | 11 | 9 | 2 | 12 | 9 | 7 | 6 | | |
| | | 3 | 30 | 14 | 13 | 5 | 3 | 17 | 7 | 7 | 4 | | |
| | | 4 | 23 | 8 | 8 | 2 | 4 | 22 | 10 | 5 | 4 | | |
| | | 5 | 31 | 7 | 13 | 5 | 5 | 19 | 12 | 7 | 5 | | |
| | | Average | | 26 | 12.6 | 11.2 | 5.2 | Average | | 17.2 | 9.4 | 6.4 | 4.8 |
| | | Corrected | | -17.8 | -31.2 | -32.6 | -38.6 | Corrected | | -26.6 | -34.4 | -37.4 | -39 |

Size of this preview: 800 × 469 pixels.

Original file (939 × 550 pixels, file size: 136 KB, MIME type: image/jpeg)


Description
Spreadsheet for radiation

Author
Zafarm (talk)

Source
Own work


Date

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