

Table 269: Muons in Tungsten hexafluoride (WF₆)

| $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|-----------------------|-----------------------------|------------|---------|---------------------------------------|-----------|----------|------------------------------------|------------|
| 0.42976 | 2.400 | 354.4 | 0.03658 | 3.5134 | 0.3020 | 4.2602 | 5.9881 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod [MeV cm ² /g] | Photonucl | Total | CSDA range [g/cm ²] | |
| 10.0 MeV | 4.704×10^1 | 4.928 | | | | 4.928 | 1.143×10^0 | |
| 14.0 MeV | 5.616×10^1 | 3.880 | | | | 3.880 | 2.067×10^0 | |
| 20.0 MeV | 6.802×10^1 | 3.057 | | | | 3.057 | 3.828×10^0 | |
| 30.0 MeV | 8.509×10^1 | 2.393 | | | | 2.393 | 7.574×10^0 | |
| 40.0 MeV | 1.003×10^2 | 2.056 | | | | 2.056 | 1.211×10^1 | |
| 80.0 MeV | 1.527×10^2 | 1.565 | | | | 1.565 | 3.509×10^1 | |
| 100. MeV | 1.764×10^2 | 1.479 | | | | 1.479 | 4.827×10^1 | |
| 140. MeV | 2.218×10^2 | 1.396 | | | | 1.396 | 7.623×10^1 | |
| 200. MeV | 2.868×10^2 | 1.353 | | | | 1.353 | 1.200×10^2 | |
| 253. MeV | 3.431×10^2 | 1.346 | | | 0.000 | 1.346 | <i>Minimum ionization</i> | |
| 300. MeV | 3.917×10^2 | 1.349 | 0.000 | | 0.000 | 1.349 | 1.942×10^2 | |
| 400. MeV | 4.945×10^2 | 1.367 | 0.000 | | 0.000 | 1.367 | 2.679×10^2 | |
| 800. MeV | 8.995×10^2 | 1.451 | 0.001 | | 0.000 | 1.452 | 5.516×10^2 | |
| 1.00 GeV | 1.101×10^3 | 1.485 | 0.001 | | 0.000 | 1.486 | 6.877×10^2 | |
| 1.40 GeV | 1.502×10^3 | 1.539 | 0.002 | | 0.001 | 1.541 | 9.517×10^2 | |
| 2.00 GeV | 2.103×10^3 | 1.598 | 0.003 | 0.001 | 0.001 | 1.602 | 1.333×10^3 | |
| 3.00 GeV | 3.104×10^3 | 1.665 | 0.004 | 0.002 | 0.001 | 1.673 | 1.943×10^3 | |
| 4.00 GeV | 4.104×10^3 | 1.711 | 0.006 | 0.004 | 0.002 | 1.724 | 2.531×10^3 | |
| 8.00 GeV | 8.105×10^3 | 1.816 | 0.016 | 0.014 | 0.003 | 1.851 | 4.762×10^3 | |
| 10.0 GeV | 1.011×10^4 | 1.848 | 0.021 | 0.020 | 0.004 | 1.894 | 5.830×10^3 | |
| 14.0 GeV | 1.411×10^4 | 1.894 | 0.032 | 0.033 | 0.006 | 1.966 | 7.901×10^3 | |
| 20.0 GeV | 2.011×10^4 | 1.940 | 0.050 | 0.055 | 0.008 | 2.053 | 1.089×10^4 | |
| 30.0 GeV | 3.011×10^4 | 1.988 | 0.082 | 0.096 | 0.012 | 2.179 | 1.561×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.021 | 0.116 | 0.141 | 0.015 | 2.294 | 2.008×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.093 | 0.262 | 0.341 | 0.030 | 2.727 | 3.604×10^4 | |
| 100. GeV | 1.001×10^5 | 2.115 | 0.340 | 0.449 | 0.037 | 2.942 | 4.310×10^4 | |
| 140. GeV | 1.401×10^5 | 2.147 | 0.499 | 0.671 | 0.052 | 3.369 | 5.580×10^4 | |
| 200. GeV | 2.001×10^5 | 2.180 | 0.748 | 1.023 | 0.074 | 4.025 | 7.208×10^4 | |
| 234. GeV | 2.339×10^5 | 2.194 | 0.890 | 1.218 | 0.086 | 4.389 | <i>Muon critical energy</i> | |
| 300. GeV | 3.001×10^5 | 2.217 | 1.173 | 1.611 | 0.111 | 5.112 | 9.408×10^4 | |
| 400. GeV | 4.001×10^5 | 2.243 | 1.613 | 2.221 | 0.147 | 6.224 | 1.118×10^5 | |
| 800. GeV | 8.001×10^5 | 2.305 | 3.427 | 4.724 | 0.298 | 10.755 | 1.601×10^5 | |
| 1.00 TeV | 1.000×10^6 | 2.325 | 4.360 | 6.005 | 0.375 | 13.065 | 1.770×10^5 | |
| 1.40 TeV | 1.400×10^6 | 2.355 | 6.228 | 8.560 | 0.531 | 17.675 | 2.032×10^5 | |
| 2.00 TeV | 2.000×10^6 | 2.388 | 9.086 | 12.459 | 0.768 | 24.702 | 2.318×10^5 | |
| 3.00 TeV | 3.000×10^6 | 2.425 | 13.858 | 18.940 | 1.175 | 36.399 | 2.649×10^5 | |
| 4.00 TeV | 4.000×10^6 | 2.453 | 18.692 | 25.490 | 1.588 | 48.224 | 2.887×10^5 | |
| 8.00 TeV | 8.000×10^6 | 2.519 | 38.184 | 51.823 | 3.304 | 95.831 | 3.464×10^5 | |
| 10.0 TeV | 1.000×10^7 | 2.541 | 48.006 | 65.060 | 4.186 | 119.794 | 3.651×10^5 | |
| 14.0 TeV | 1.400×10^7 | 2.575 | 67.596 | 91.471 | 5.997 | 167.640 | 3.932×10^5 | |
| 20.0 TeV | 2.000×10^7 | 2.611 | 97.154 | 131.258 | 8.775 | 239.799 | 4.229×10^5 | |
| 30.0 TeV | 3.000×10^7 | 2.652 | 146.362 | 197.456 | 13.581 | 360.052 | 4.567×10^5 | |
| 40.0 TeV | 4.000×10^7 | 2.682 | 195.745 | 263.814 | 18.504 | 480.747 | 4.807×10^5 | |
| 80.0 TeV | 8.000×10^7 | 2.756 | 393.572 | 529.421 | 39.088 | 964.838 | 5.383×10^5 | |
| 100. TeV | 1.000×10^8 | 2.781 | 492.651 | 662.343 | 49.730 | 1207.507 | 5.568×10^5 | |