

Muons in silver (Ag)

| Z | A [g/mol] | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|---------------------|-----------------------------|---------|---------------------------------------|-----------|----------|------------------------------------|-----------|------------|
| 47 (Ag) | 107.8682(2) | 10.500 | 470.0 | 0.24585 | 2.6899 | 0.0657 | 3.1074 | 5.0630 | 0.14 |
| 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 | 4.721 | | | | 4.721 | 1.206×10^0 | | |
| 14.0 MeV | 5.616×10^1 | 3.732 | | | | 3.733 | 2.168×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 2.950 | | | | 2.950 | 3.996×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 2.314 | | | | 2.314 | 7.874×10^0 | | |
| 40.0 MeV | 1.003×10^2 | 1.988 | | | | 1.988 | 1.257×10^1 | | |
| 80.0 MeV | 1.527×10^2 | 1.513 | | | | 1.513 | 3.634×10^1 | | |
| 100. MeV | 1.764×10^2 | 1.428 | | | | 1.428 | 4.998×10^1 | | |
| 140. MeV | 2.218×10^2 | 1.346 | | | | 1.346 | 7.896×10^1 | | |
| 200. MeV | 2.868×10^2 | 1.305 | | | | 1.306 | 1.244×10^2 | | |
| 253. MeV | 3.431×10^2 | 1.299 | | | | 1.299 | <i>Minimum ionization</i> | | |
| 300. MeV | 3.917×10^2 | 1.303 | 0.000 | | 0.000 | 1.303 | 2.012×10^2 | | |
| 400. MeV | 4.945×10^2 | 1.321 | 0.000 | | 0.000 | 1.321 | 2.775×10^2 | | |
| 800. MeV | 8.995×10^2 | 1.404 | 0.001 | | 0.000 | 1.405 | 5.707×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 1.438 | 0.001 | | 0.000 | 1.440 | 7.113×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 1.492 | 0.002 | 0.000 | 0.001 | 1.495 | 9.837×10^2 | | |
| 2.00 GeV | 2.103×10^3 | 1.550 | 0.003 | 0.001 | 0.001 | 1.555 | 1.377×10^3 | | |
| 3.00 GeV | 3.104×10^3 | 1.616 | 0.005 | 0.003 | 0.001 | 1.625 | 2.005×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 1.662 | 0.007 | 0.005 | 0.002 | 1.676 | 2.610×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 1.765 | 0.017 | 0.016 | 0.003 | 1.802 | 4.903×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 1.796 | 0.022 | 0.023 | 0.004 | 1.845 | 6.000×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 1.840 | 0.034 | 0.037 | 0.005 | 1.917 | 8.125×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 1.884 | 0.053 | 0.060 | 0.008 | 2.005 | 1.118×10^4 | | |
| 30.0 GeV | 3.011×10^4 | 1.930 | 0.086 | 0.105 | 0.011 | 2.134 | 1.601×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 1.961 | 0.121 | 0.154 | 0.015 | 2.252 | 2.057×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 2.029 | 0.274 | 0.370 | 0.029 | 2.703 | 3.675×10^4 | | |
| 100. GeV | 1.001×10^5 | 2.050 | 0.355 | 0.486 | 0.036 | 2.928 | 4.386×10^4 | | |
| 140. GeV | 1.401×10^5 | 2.081 | 0.521 | 0.725 | 0.051 | 3.379 | 5.657×10^4 | | |
| 200. GeV | 2.001×10^5 | 2.113 | 0.781 | 1.103 | 0.072 | 4.071 | 7.273×10^4 | | |
| 215. GeV | 2.149×10^5 | 2.119 | 0.846 | 1.196 | 0.078 | 4.239 | <i>Muon critical energy</i> | | |
| 300. GeV | 3.001×10^5 | 2.149 | 1.226 | 1.737 | 0.108 | 5.221 | 9.438×10^4 | | |
| 400. GeV | 4.001×10^5 | 2.175 | 1.685 | 2.393 | 0.144 | 6.398 | 1.117×10^5 | | |
| 800. GeV | 8.001×10^5 | 2.237 | 3.582 | 5.084 | 0.292 | 11.195 | 1.583×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 2.257 | 4.557 | 6.460 | 0.367 | 13.642 | 1.745×10^5 | | |
| 1.40 TeV | 1.400×10^6 | 2.288 | 6.511 | 9.207 | 0.519 | 18.527 | 1.996×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 2.321 | 9.501 | 13.399 | 0.751 | 25.974 | 2.268×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 2.359 | 14.493 | 20.366 | 1.149 | 38.369 | 2.583×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 2.387 | 19.553 | 27.407 | 1.553 | 50.901 | 2.809×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 2.454 | 39.957 | 55.715 | 3.227 | 101.354 | 3.355×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 2.477 | 50.241 | 69.945 | 4.086 | 126.750 | 3.531×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 2.511 | 70.753 | 98.337 | 5.851 | 177.453 | 3.796×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 2.547 | 101.706 | 141.108 | 8.556 | 253.918 | 4.078×10^5 | | |
| 30.0 TeV | 3.000×10^7 | 2.589 | 153.235 | 212.274 | 13.231 | 381.330 | 4.397×10^5 | | |
| 40.0 TeV | 4.000×10^7 | 2.620 | 204.952 | 283.611 | 18.017 | 509.201 | 4.623×10^5 | | |
| 80.0 TeV | 8.000×10^7 | 2.695 | 412.144 | 569.156 | 37.999 | 1021.995 | 5.166×10^5 | | |
| 100. TeV | 1.000×10^8 | 2.720 | 515.920 | 712.060 | 48.320 | 1279.021 | 5.341×10^5 | | |