

**Table 052: Muons in Tellurium**

Z	A [g/mol]	$\rho$ [g/cm <sup>3</sup> ]	I [eV]	a	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
52 (Te)	127.60 (3)	6.240	485.0	0.13815	3.0354	0.3296	3.4418	5.7131	0.14
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	4.398				4.398	$1.296 \times 10^0$		
14.0 MeV	$5.616 \times 10^1$	3.479				3.479	$2.328 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	2.752				2.752	$4.288 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	2.162				2.162	$8.442 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	1.860				1.860	$1.346 \times 10^1$		
80.0 MeV	$1.527 \times 10^2$	1.419				1.419	$3.882 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.341				1.341	$5.335 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.266				1.266	$8.419 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.231				1.231	$1.324 \times 10^2$		
243. MeV	$3.325 \times 10^2$	1.227				1.227	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.232	0.000		0.000	1.232	$2.138 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.251	0.000		0.000	1.251	$2.944 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.334	0.001		0.000	1.335	$6.035 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.367	0.001		0.000	1.368	$7.514 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.419	0.002	0.000	0.001	1.421	$1.038 \times 10^3$		
2.00 GeV	$2.103 \times 10^3$	1.475	0.003	0.001	0.001	1.480	$1.451 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.538	0.005	0.003	0.001	1.548	$2.111 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.582	0.007	0.005	0.002	1.596	$2.747 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	1.681	0.017	0.017	0.003	1.718	$5.153 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	1.710	0.023	0.023	0.004	1.761	$6.302 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	1.752	0.035	0.038	0.005	1.831	$8.529 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	1.794	0.054	0.062	0.008	1.918	$1.173 \times 10^4$		
30.0 GeV	$3.011 \times 10^4$	1.839	0.088	0.107	0.011	2.046	$1.677 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	1.868	0.124	0.157	0.015	2.165	$2.152 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	1.934	0.280	0.377	0.029	2.621	$3.828 \times 10^4$		
100. GeV	$1.001 \times 10^5$	1.953	0.363	0.495	0.036	2.849	$4.560 \times 10^4$		
140. GeV	$1.401 \times 10^5$	1.983	0.533	0.739	0.050	3.306	$5.862 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.013	0.799	1.126	0.071	4.010	$7.509 \times 10^4$		
202. GeV	$2.017 \times 10^5$	2.013	0.806	1.135	0.072	4.028	<i>Muon critical energy</i>		
300. GeV	$3.001 \times 10^5$	2.047	1.254	1.771	0.107	5.179	$9.698 \times 10^4$		
400. GeV	$4.001 \times 10^5$	2.071	1.724	2.440	0.142	6.378	$1.144 \times 10^5$		
800. GeV	$8.001 \times 10^5$	2.129	3.664	5.183	0.288	11.265	$1.610 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.148	4.661	6.587	0.362	13.758	$1.770 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.177	6.659	9.386	0.512	18.735	$2.018 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.208	9.716	13.658	0.741	26.323	$2.287 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.243	14.819	20.757	1.132	38.953	$2.598 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.269	19.991	27.932	1.530	51.724	$2.820 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.332	40.844	56.774	3.179	103.131	$3.357 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.353	51.352	71.272	4.026	129.005	$3.530 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.385	72.313	100.200	5.763	180.663	$3.791 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.419	103.940	143.778	8.426	258.564	$4.067 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.459	156.591	216.283	13.027	388.361	$4.380 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	2.487	209.432	288.960	17.736	518.616	$4.602 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	2.557	421.117	579.876	37.396	1040.948	$5.136 \times 10^5$		
100. TeV	$1.000 \times 10^8$	2.580	527.140	725.470	47.550	1302.742	$5.307 \times 10^5$		