Muons in testes (ICRP)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.55108	1.040	75.0	0.08533	3.5428	0.2274	2.7988	3.4698	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	7.907				7.907	6.989×10^{-1}
14.0 MeV	5.616×10^1	6.168				6.168	1.278×10^0
20.0 MeV	6.802×10^1	4.817				4.817	2.391×10^0
30.0 MeV	8.509×10^1	3.737				3.737	4.781×10^0
40.0 MeV	1.003×10^2	3.191				3.191	7.696×10^0
80.0 MeV	1.527×10^2	2.396				2.396	2.262×10^1
100. MeV	1.764×10^2	2.253				2.253	3.125×10^1
140. MeV	2.218×10^2	2.100				2.100	4.973×10^1
200. MeV	2.868×10^2	2.011				2.011	7.904×10^1
300. MeV	3.917×10^2	1.977			0.000	1.977	1.293×10^2
318. MeV	4.105×10^2	1.976			0.000	1.977	*Minimum ionization*
400. MeV	4.945×10^2	1.983			0.000	1.984	1.799×10^2
800. MeV	8.995×10^2	2.058	0.000		0.000	2.059	3.779×10^2
1.00 GeV	1.101×10^3	2.092	0.000		0.000	2.093	4.742×10^2
1.40 GeV	1.502×10^3	2.148	0.000		0.001	2.149	6.627×10^2
2.00 GeV	2.103×10^3	2.209	0.001	0.000	0.001	2.211	9.377×10^2
3.00 GeV	3.104×10^3	2.279	0.001	0.001	0.001	2.282	1.382×10^3
4.00 GeV	4.104×10^3	2.327	0.001	0.001	0.002	2.332	1.816×10^3
8.00 GeV	8.105×10^3	2.438	0.004	0.003	0.004	2.449	3.484×10^3
10.0 GeV	1.011×10^4	2.472	0.005	0.005	0.005	2.487	4.294×10^3
14.0 GeV	1.411×10^4	2.521	0.007	0.008	0.007	2.543	5.884×10^3
20.0 GeV	2.011×10^4	2.570	0.011	0.013	0.009	2.604	8.214×10^3
30.0 GeV	3.011×10^4	2.624	0.019	0.023	0.013	2.678	1.200×10^4
40.0 GeV	4.011×10^4	2.660	0.026	0.033	0.018	2.737	1.569×10^4
80.0 GeV	8.011×10^4	2.743	0.060	0.080	0.034	2.917	2.982×10^4
100. GeV	1.001×10^5	2.769	0.077	0.106	0.042	2.995	3.659×10^4
140. GeV	1.401×10^5	2.807	0.114	0.159	0.059	3.140	4.963×10^4
200. GeV	2.001×10^5	2.848	0.172	0.243	0.084	3.347	6.813×10^4
300. GeV	3.001×10^5	2.894	0.272	0.387	0.125	3.677	9.661×10^4
400. GeV	4.001×10^5	2.926	0.375	0.536	0.167	4.004	1.227×10^5
800. GeV	8.001×10^5	3.005	0.805	1.158	0.337	5.305	2.092×10^5
1.00 TeV	1.000×10^6	3.031	1.027	1.479	0.424	5.960	2.447×10^5
1.03 TeV	1.034×10^6	3.034	1.064	1.532	0.438	6.069	*Muon critical energy*
1.40 TeV	1.400×10^6	3.070	1.474	2.118	0.601	7.263	3.054×10^5
2.00 TeV	2.000×10^6	3.112	2.162	3.098	0.870	9.241	3.785×10^5
3.00 TeV	3.000×10^6	3.160	3.314	4.728	1.333	12.535	4.711×10^5
4.00 TeV	4.000×10^6	3.195	4.486	6.381	1.803	15.866	5.419×10^5
8.00 TeV	8.000×10^6	3.280	9.234	13.040	3.765	29.319	7.245×10^5
10.0 TeV	1.000×10^7	3.308	11.635	16.394	4.775	36.112	7.859×10^5
14.0 TeV	1.400×10^7	3.351	16.426	23.076	6.856	49.710	8.799×10^5
20.0 TeV	2.000×10^7	3.397	23.675	33.154	10.054	70.282	9.809×10^5
30.0 TeV	3.000×10^7	3.451	35.746	49.924	15.605	104.726	1.097×10^6
40.0 TeV	4.000×10^7	3.489	47.881	66.747	21.303	139.420	1.179×10^6
80.0 TeV	8.000×10^7	3.584	96.556	134.097	45.214	279.452	1.378×10^6
100. TeV	1.000×10^8	3.616	120.964	167.811	57.610	350.001	1.442×10^6