Muons in calcium oxide (CaO)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.49929	3.300	176.1	0.12128	3.1936	−0.0172	3.0171	4.1209	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	6.373				6.373	8.750×10^{-1}
14.0 MeV	5.616×10^1	4.994				4.994	1.591×10^0
20.0 MeV	6.802×10^1	3.918				3.918	2.963×10^0
30.0 MeV	8.509×10^1	3.053				3.053	5.894×10^0
40.0 MeV	1.003×10^2	2.615				2.615	9.456×10^0
80.0 MeV	1.527×10^2	1.968				1.968	2.764×10^1
100. MeV	1.764×10^2	1.850				1.850	3.815×10^1
140. MeV	2.218×10^2	1.732				1.732	6.060×10^1
200. MeV	2.868×10^2	1.668				1.668	9.603×10^1
284. MeV	3.748×10^2	1.650			0.000	1.650	*Minimum ionization*
300. MeV	3.917×10^2	1.650			0.000	1.651	1.565×10^2
400. MeV	4.945×10^2	1.663	0.000		0.000	1.664	2.168×10^2
800. MeV	8.995×10^2	1.745	0.000		0.000	1.745	4.515×10^2
1.00 GeV	1.101×10^3	1.779	0.000		0.000	1.780	5.649×10^2
1.40 GeV	1.502×10^3	1.835	0.001	0.000	0.001	1.837	7.860×10^2
2.00 GeV	2.103×10^3	1.896	0.001	0.001	0.001	1.898	1.107×10^3
3.00 GeV	3.104×10^3	1.964	0.002	0.001	0.001	1.969	1.624×10^3
4.00 GeV	4.104×10^3	2.012	0.003	0.002	0.002	2.019	2.125×10^3
8.00 GeV	8.105×10^3	2.119	0.007	0.007	0.004	2.138	4.043×10^3
10.0 GeV	1.011×10^4	2.152	0.010	0.010	0.005	2.176	4.970×10^3
14.0 GeV	1.411×10^4	2.198	0.015	0.017	0.006	2.236	6.782×10^3
20.0 GeV	2.011×10^4	2.245	0.023	0.027	0.009	2.304	9.424×10^3
30.0 GeV	3.011×10^4	2.295	0.038	0.047	0.013	2.393	1.368×10^4
40.0 GeV	4.011×10^4	2.328	0.054	0.069	0.017	2.468	1.779×10^4
80.0 GeV	8.011×10^4	2.404	0.122	0.165	0.032	2.724	3.319×10^4
100. GeV	1.001×10^5	2.428	0.158	0.218	0.040	2.844	4.038×10^4
140. GeV	1.401×10^5	2.463	0.232	0.326	0.056	3.077	5.390×10^4
200. GeV	2.001×10^5	2.499	0.348	0.497	0.079	3.424	7.237×10^4
300. GeV	3.001×10^5	2.541	0.548	0.785	0.119	3.993	9.939×10^4
400. GeV	4.001×10^5	2.570	0.754	1.084	0.158	4.567	1.228×10^5
507. GeV	5.073×10^5	2.595	0.981	1.413	0.201	5.190	*Muon critical energy*
800. GeV	8.001×10^5	2.642	1.608	2.317	0.320	6.887	1.936×10^5
1.00 TeV	1.000×10^6	2.665	2.049	2.950	0.402	8.065	2.205×10^5
1.40 TeV	1.400×10^6	2.700	2.933	4.212	0.569	10.415	2.640×10^5
2.00 TeV	2.000×10^6	2.738	4.288	6.143	0.824	13.993	3.135×10^5
3.00 TeV	3.000×10^6	2.782	6.554	9.352	1.262	19.950	3.731×10^5
4.00 TeV	4.000×10^6	2.813	8.854	12.600	1.706	25.974	4.169×10^5
8.00 TeV	8.000×10^6	2.891	18.144	25.668	3.555	50.259	5.257×10^5
10.0 TeV	1.000×10^7	2.916	22.833	32.243	4.506	62.499	5.613×10^5
14.0 TeV	1.400×10^7	2.955	32.194	45.354	6.462	86.966	6.153×10^5
20.0 TeV	2.000×10^7	2.997	46.335	65.116	9.465	123.914	6.728×10^5
30.0 TeV	3.000×10^7	3.045	69.853	97.999	14.666	185.563	7.383×10^5
40.0 TeV	4.000×10^7	3.080	93.468	130.972	19.997	247.518	7.848×10^5
80.0 TeV	8.000×10^7	3.166	188.140	262.969	42.322	496.597	8.967×10^5
100. TeV	1.000×10^8	3.195	235.584	329.037	53.876	621.691	9.326×10^5