Muons in potassium oxide (K_2O)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.48834	2.320	189.9	0.16789	3.0121	0.0480	3.0110	4.6463	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	6.165				6.165	9.054×10^{-1}
14.0 MeV	5.616×10^1	4.833				4.834	1.646×10^0
20.0 MeV	6.802×10^1	3.793				3.793	3.063×10^0
30.0 MeV	8.509×10^1	2.957				2.957	6.089×10^0
40.0 MeV	1.003×10^2	2.534				2.534	9.766×10^0
80.0 MeV	1.527×10^2	1.914				1.914	2.849×10^1
100. MeV	1.764×10^2	1.801				1.801	3.929×10^1
140. MeV	2.218×10^2	1.689				1.689	6.233×10^1
200. MeV	2.868×10^2	1.630				1.630	9.863×10^1
277. MeV	3.673×10^2	1.615			0.000	1.615	*Minimum ionization*
300. MeV	3.917×10^2	1.616			0.000	1.616	1.604×10^2
400. MeV	4.945×10^2	1.631	0.000		0.000	1.631	2.220×10^2
800. MeV	8.995×10^2	1.716	0.000		0.000	1.716	4.610×10^2
1.00 GeV	1.101×10^3	1.751	0.000		0.000	1.752	5.763×10^2
1.40 GeV	1.502×10^3	1.808	0.001	0.000	0.001	1.810	8.008×10^2
2.00 GeV	2.103×10^3	1.870	0.001	0.001	0.001	1.873	1.126×10^3
3.00 GeV	3.104×10^3	1.939	0.002	0.001	0.001	1.944	1.650×10^3
4.00 GeV	4.104×10^3	1.988	0.003	0.002	0.002	1.995	2.157×10^3
8.00 GeV	8.105×10^3	2.096	0.008	0.007	0.004	2.115	4.098×10^3
10.0 GeV	1.011×10^4	2.129	0.010	0.010	0.004	2.154	5.034×10^3
14.0 GeV	1.411×10^4	2.176	0.015	0.017	0.006	2.214	6.865×10^3
20.0 GeV	2.011×10^4	2.222	0.023	0.027	0.009	2.282	9.532×10^3
30.0 GeV	3.011×10^4	2.272	0.038	0.047	0.013	2.371	1.383×10^4
40.0 GeV	4.011×10^4	2.305	0.054	0.069	0.017	2.445	1.798×10^4
80.0 GeV	8.011×10^4	2.380	0.123	0.167	0.032	2.701	3.352×10^4
100. GeV	1.001×10^5	2.403	0.159	0.219	0.040	2.821	4.076×10^4
140. GeV	1.401×10^5	2.437	0.233	0.328	0.055	3.054	5.439×10^4
200. GeV	2.001×10^5	2.473	0.350	0.500	0.079	3.403	7.299×10^4
300. GeV	3.001×10^5	2.513	0.551	0.790	0.118	3.973	1.002×10^5
400. GeV	4.001×10^5	2.542	0.758	1.092	0.157	4.549	1.237×10^5
499. GeV	4.994×10^5	2.564	0.969	1.399	0.196	5.129	*Muon critical energy*
800. GeV	8.001×10^5	2.612	1.617	2.332	0.318	6.879	1.947×10^5
1.00 TeV	1.000×10^6	2.634	2.060	2.969	0.399	8.063	2.215×10^5
1.40 TeV	1.400×10^6	2.669	2.948	4.239	0.566	10.423	2.650×10^5
2.00 TeV	2.000×10^6	2.706	4.310	6.182	0.820	14.018	3.145×10^5
3.00 TeV	3.000×10^6	2.749	6.588	9.411	1.255	20.003	3.739×10^5
4.00 TeV	4.000×10^6	2.780	8.900	12.679	1.697	26.056	4.176×10^5
8.00 TeV	8.000×10^6	2.856	18.239	25.826	3.535	50.455	5.260×10^5
10.0 TeV	1.000×10^7	2.880	22.952	32.440	4.480	62.752	5.615×10^5
14.0 TeV	1.400×10^7	2.918	32.360	45.631	6.424	87.335	6.153×10^5
20.0 TeV	2.000×10^7	2.959	46.575	65.513	9.407	124.455	6.725×10^5
30.0 TeV	3.000×10^7	3.007	70.212	98.594	14.575	186.389	7.378×10^5
40.0 TeV	4.000×10^7	3.041	93.947	131.766	19.873	248.627	7.841×10^5
80.0 TeV	8.000×10^7	3.125	189.099	264.559	42.049	498.833	8.954×10^5
100. TeV	1.000×10^8	3.153	236.785	331.027	53.524	624.489	9.312×10^5