

Muons in molybdenum (Mo)

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
42 (Mo)	95.95(1)	10.220	424.0	0.10525	3.2549	0.2267	3.2784	4.8793	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	4.836				4.836	1.175×10^0		
14.0 MeV	5.616×10^1	3.820				3.820	2.114×10^0		
20.0 MeV	6.802×10^1	3.017				3.017	3.901×10^0		
30.0 MeV	8.509×10^1	2.366				2.366	7.693×10^0		
40.0 MeV	1.003×10^2	2.034				2.034	1.228×10^1		
80.0 MeV	1.527×10^2	1.547				1.547	3.551×10^1		
100. MeV	1.764×10^2	1.460				1.460	4.885×10^1		
140. MeV	2.218×10^2	1.377				1.377	7.718×10^1		
200. MeV	2.868×10^2	1.336				1.336	1.216×10^2		
252. MeV	3.421×10^2	1.329				1.330	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.333	0.000		0.000	1.333	1.967×10^2		
400. MeV	4.945×10^2	1.350	0.000		0.000	1.351	2.712×10^2		
800. MeV	8.995×10^2	1.433	0.001		0.000	1.434	5.584×10^2		
1.00 GeV	1.101×10^3	1.466	0.001		0.000	1.467	6.962×10^2		
1.40 GeV	1.502×10^3	1.518	0.001	0.000	0.001	1.521	9.638×10^2		
2.00 GeV	2.103×10^3	1.575	0.002	0.001	0.001	1.579	1.351×10^3		
3.00 GeV	3.104×10^3	1.639	0.004	0.003	0.001	1.647	1.970×10^3		
4.00 GeV	4.104×10^3	1.683	0.006	0.005	0.002	1.696	2.568×10^3		
8.00 GeV	8.105×10^3	1.782	0.015	0.015	0.003	1.816	4.839×10^3		
10.0 GeV	1.011×10^4	1.812	0.020	0.021	0.004	1.857	5.928×10^3		
14.0 GeV	1.411×10^4	1.854	0.031	0.034	0.006	1.925	8.042×10^3		
20.0 GeV	2.011×10^4	1.897	0.048	0.055	0.008	2.008	1.109×10^4		
30.0 GeV	3.011×10^4	1.942	0.078	0.096	0.011	2.128	1.593×10^4		
40.0 GeV	4.011×10^4	1.972	0.110	0.141	0.015	2.239	2.051×10^4		
80.0 GeV	8.011×10^4	2.040	0.248	0.337	0.030	2.656	3.688×10^4		
100. GeV	1.001×10^5	2.061	0.322	0.442	0.037	2.863	4.413×10^4		
140. GeV	1.401×10^5	2.092	0.472	0.660	0.051	3.277	5.719×10^4		
200. GeV	2.001×10^5	2.124	0.708	1.005	0.073	3.911	7.393×10^4		
235. GeV	2.352×10^5	2.138	0.848	1.205	0.086	4.278	<i>Muon critical energy</i>		
300. GeV	3.001×10^5	2.160	1.111	1.583	0.109	4.964	9.658×10^4		
400. GeV	4.001×10^5	2.186	1.528	2.181	0.146	6.041	1.148×10^5		
800. GeV	8.001×10^5	2.248	3.249	4.635	0.295	10.427	1.646×10^5		
1.00 TeV	1.000×10^6	2.269	4.133	5.890	0.370	12.664	1.820×10^5		
1.40 TeV	1.400×10^6	2.300	5.907	8.396	0.524	17.128	2.091×10^5		
2.00 TeV	2.000×10^6	2.333	8.621	12.220	0.759	23.934	2.386×10^5		
3.00 TeV	3.000×10^6	2.372	13.154	18.576	1.160	35.263	2.728×10^5		
4.00 TeV	4.000×10^6	2.399	17.749	25.001	1.568	46.718	2.974×10^5		
8.00 TeV	8.000×10^6	2.467	36.280	50.830	3.259	92.838	3.569×10^5		
10.0 TeV	1.000×10^7	2.489	45.621	63.815	4.128	116.055	3.762×10^5		
14.0 TeV	1.400×10^7	2.523	64.253	89.724	5.912	162.413	4.052×10^5		
20.0 TeV	2.000×10^7	2.560	92.372	128.756	8.646	232.335	4.359×10^5		
30.0 TeV	3.000×10^7	2.603	139.182	193.698	13.371	348.855	4.708×10^5		
40.0 TeV	4.000×10^7	2.633	186.166	258.798	18.209	465.807	4.955×10^5		
80.0 TeV	8.000×10^7	2.709	374.403	519.384	38.413	934.910	5.549×10^5		
100. TeV	1.000×10^8	2.733	468.690	649.800	48.850	1170.075	5.740×10^5		