

Table 320: Muons in Element 116

Z	A [g/mol]	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
116 ()	[290.0000]	??	1213.0	0.29041	3.0000	0.7028	3.0000	6.7571	0.00
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	3.470				3.470	1.731×10^0		
14.0 MeV	5.616×10^1	2.812				2.812	3.022×10^0		
20.0 MeV	6.802×10^1	2.269				2.269	5.419×10^0		
30.0 MeV	8.509×10^1	1.814				1.814	1.041×10^1		
40.0 MeV	1.003×10^2	1.577				1.577	1.635×10^1		
80.0 MeV	1.527×10^2	1.228				1.228	4.592×10^1		
100. MeV	1.764×10^2	1.167				1.167	6.266×10^1		
140. MeV	2.218×10^2	1.112				1.113	9.791×10^1		
200. MeV	2.868×10^2	1.093	0.000			1.093	1.525×10^2		
206. MeV	2.933×10^2	1.093	0.000			1.093	<i>Minimum ionization</i>		
300. MeV	3.917×10^2	1.108	0.000		0.000	1.108	2.435×10^2		
400. MeV	4.945×10^2	1.137	0.000		0.000	1.137	3.326×10^2		
800. MeV	8.995×10^2	1.240	0.001		0.000	1.242	6.681×10^2		
1.00 GeV	1.101×10^3	1.278	0.002		0.000	1.281	8.265×10^2		
1.40 GeV	1.502×10^3	1.336	0.003		0.000	1.340	1.131×10^3		
2.00 GeV	2.103×10^3	1.397	0.005		0.001	1.404	1.568×10^3		
3.00 GeV	3.104×10^3	1.464	0.009	0.003	0.001	1.478	2.261×10^3		
4.00 GeV	4.104×10^3	1.509	0.014	0.006	0.001	1.532	2.925×10^3		
8.00 GeV	8.105×10^3	1.609	0.034	0.025	0.003	1.672	5.415×10^3		
10.0 GeV	1.011×10^4	1.638	0.046	0.037	0.004	1.725	6.592×10^3		
14.0 GeV	1.411×10^4	1.679	0.070	0.061	0.005	1.816	8.850×10^3		
20.0 GeV	2.011×10^4	1.719	0.109	0.102	0.007	1.939	1.205×10^4		
30.0 GeV	3.011×10^4	1.762	0.178	0.183	0.010	2.135	1.696×10^4		
40.0 GeV	4.011×10^4	1.789	0.252	0.273	0.014	2.329	2.144×10^4		
80.0 GeV	8.011×10^4	1.851	0.570	0.671	0.027	3.120	3.624×10^4		
100. GeV	1.001×10^5	1.870	0.738	0.887	0.033	3.530	4.226×10^4		
111. GeV	1.113×10^5	1.879	0.834	1.008	0.037	3.759	<i>Muon critical energy</i>		
140. GeV	1.401×10^5	1.898	1.083	1.330	0.046	4.360	5.245×10^4		
200. GeV	2.001×10^5	1.927	1.623	2.035	0.066	5.653	6.451×10^4		
300. GeV	3.001×10^5	1.960	2.543	3.210	0.099	7.815	7.950×10^4		
400. GeV	4.001×10^5	1.984	3.494	4.430	0.132	10.042	9.077×10^4		
800. GeV	8.001×10^5	2.041	7.411	9.430	0.267	19.152	1.191×10^5		
1.00 TeV	1.000×10^6	2.060	9.420	11.989	0.335	23.807	1.285×10^5		
1.40 TeV	1.400×10^6	2.088	13.444	17.089	0.475	33.098	1.427×10^5		
2.00 TeV	2.000×10^6	2.118	19.591	24.874	0.687	47.273	1.578×10^5		
3.00 TeV	3.000×10^6	2.154	29.844	37.805	1.049	70.855	1.749×10^5		
4.00 TeV	4.000×10^6	2.179	40.225	50.875	1.417	94.699	1.871×10^5		
8.00 TeV	8.000×10^6	2.241	82.037	103.402	2.941	190.624	2.163×10^5		
10.0 TeV	1.000×10^7	2.261	103.089	129.803	3.723	238.879	2.256×10^5		
14.0 TeV	1.400×10^7	2.292	145.078	182.482	5.326	335.181	2.397×10^5		
20.0 TeV	2.000×10^7	2.326	208.394	261.836	7.782	480.340	2.546×10^5		
30.0 TeV	3.000×10^7	2.365	313.904	393.843	12.022	722.136	2.715×10^5		
40.0 TeV	4.000×10^7	2.393	419.781	526.153	16.360	964.689	2.834×10^5		
80.0 TeV	8.000×10^7	2.462	843.235	1055.754	34.453	1935.905	3.121×10^5		
100. TeV	1.000×10^8	2.484	1055.080	1320.790	43.790	2422.147	3.213×10^5		