

## Muons in sodium monoxide (Na<sub>2</sub>O)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.48404	2.270	148.8	0.07501	3.6943	0.1652	2.9793	4.1892	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	6.330				6.330	$8.793 \times 10^{-1}$		
14.0 MeV	$5.616 \times 10^1$	4.955				4.956	$1.601 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	3.883				3.884	$2.984 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	3.024				3.024	$5.943 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	2.588				2.588	$9.541 \times 10^0$		
80.0 MeV	$1.527 \times 10^2$	1.954				1.954	$2.789 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.840				1.840	$3.846 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.725				1.725	$6.102 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.663				1.664	$9.656 \times 10^1$		
283. MeV	$3.738 \times 10^2$	1.646			0.000	1.647	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.647			0.000	1.647	$1.571 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.659			0.000	1.660	$2.177 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.738	0.000		0.000	1.738	$4.531 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.771	0.000		0.000	1.772	$5.670 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.823	0.000	0.000	0.001	1.825	$7.893 \times 10^2$		
2.00 GeV	$2.103 \times 10^3$	1.881	0.001	0.000	0.001	1.883	$1.113 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.945	0.001	0.001	0.001	1.949	$1.634 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.990	0.002	0.001	0.002	1.995	$2.141 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	2.090	0.005	0.004	0.004	2.103	$4.087 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	2.121	0.006	0.006	0.005	2.138	$5.030 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	2.164	0.009	0.010	0.006	2.191	$6.877 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	2.208	0.015	0.017	0.009	2.249	$9.579 \times 10^3$		
30.0 GeV	$3.011 \times 10^4$	2.256	0.024	0.029	0.013	2.322	$1.395 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	2.288	0.034	0.043	0.017	2.382	$1.820 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	2.361	0.077	0.104	0.033	2.575	$3.432 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.384	0.100	0.137	0.041	2.662	$4.196 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.418	0.147	0.205	0.057	2.827	$5.654 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.453	0.221	0.313	0.081	3.069	$7.690 \times 10^4$		
300. GeV	$3.001 \times 10^5$	2.493	0.347	0.497	0.122	3.459	$1.076 \times 10^5$		
400. GeV	$4.001 \times 10^5$	2.522	0.479	0.687	0.162	3.850	$1.350 \times 10^5$		
735. GeV	$7.354 \times 10^5$	2.583	0.935	1.348	0.300	5.165	<i>Muon critical energy</i>		
800. GeV	$8.001 \times 10^5$	2.591	1.024	1.478	0.327	5.421	$2.221 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.614	1.306	1.886	0.412	6.217	$2.565 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.648	1.872	2.696	0.583	7.800	$3.139 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.685	2.740	3.937	0.845	10.207	$3.809 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.727	4.194	6.001	1.294	14.216	$4.636 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.758	5.671	8.093	1.750	18.272	$5.255 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.833	11.645	16.511	3.650	34.638	$6.819 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.857	14.662	20.748	4.627	42.895	$7.337 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.895	20.686	29.194	6.639	59.415	$8.126 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.936	29.792	41.929	9.728	84.386	$8.969 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.983	44.938	63.122	15.085	126.129	$9.932 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	3.016	60.153	84.380	20.580	168.130	$1.062 \times 10^6$		
80.0 TeV	$8.000 \times 10^7$	3.100	121.170	169.478	43.606	337.353	$1.226 \times 10^6$		
100. TeV	$1.000 \times 10^8$	3.127	151.757	212.073	55.529	422.487	$1.279 \times 10^6$		