

## Muons in ferrous oxide (FeO)

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.47323	5.700	248.6	0.12959	3.0168	-0.0279	3.2002	4.3175	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
				[MeV cm <sup>2</sup> /g]					
10.0 MeV	$4.704 \times 10^1$	5.738				5.738		$9.763 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	4.506				4.506		$1.771 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	3.542				3.542		$3.289 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	2.766				2.766		$6.527 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	2.372				2.372		$1.046 \times 10^1$	
80.0 MeV	$1.527 \times 10^2$	1.786				1.786		$3.050 \times 10^1$	
100. MeV	$1.764 \times 10^2$	1.679				1.680		$4.207 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.574				1.574		$6.679 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.517				1.517		$1.058 \times 10^2$	
277. MeV	$3.683 \times 10^2$	1.503			0.000	1.503			<i>Minimum ionization</i>
300. MeV	$3.917 \times 10^2$	1.504			0.000	1.504		$1.721 \times 10^2$	
400. MeV	$4.945 \times 10^2$	1.518	0.000		0.000	1.518		$2.384 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.598	0.000		0.000	1.599		$4.950 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.631	0.001		0.000	1.633		$6.188 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.686	0.001	0.000	0.001	1.688		$8.596 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	1.745	0.001	0.001	0.001	1.748		$1.209 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	1.812	0.003	0.002	0.001	1.818		$1.769 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	1.858	0.004	0.003	0.002	1.867		$2.311 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	1.964	0.009	0.009	0.004	1.986		$4.381 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	1.996	0.012	0.012	0.004	2.025		$5.378 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.042	0.018	0.020	0.006	2.087		$7.322 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.088	0.028	0.033	0.008	2.158		$1.015 \times 10^4$	
30.0 GeV	$3.011 \times 10^4$	2.137	0.046	0.057	0.012	2.253		$1.468 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.169	0.065	0.084	0.016	2.335		$1.904 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.243	0.147	0.201	0.032	2.622		$3.518 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.265	0.191	0.264	0.039	2.759		$4.261 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.298	0.280	0.394	0.055	3.028		$5.644 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.333	0.420	0.601	0.077	3.432		$7.505 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.372	0.660	0.948	0.116	4.097		$1.017 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.400	0.908	1.308	0.155	4.772		$1.243 \times 10^5$	
405. GeV	$4.047 \times 10^5$	2.401	0.920	1.325	0.157	4.803			<i>Muon critical energy</i>
800. GeV	$8.001 \times 10^5$	2.468	1.936	2.789	0.313	7.507		$1.906 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.490	2.465	3.549	0.393	8.898		$2.150 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.523	3.527	5.065	0.557	11.673		$2.542 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.559	5.153	7.380	0.806	15.900		$2.980 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.601	7.872	11.230	1.234	22.937		$3.501 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.631	10.630	15.124	1.669	30.055		$3.881 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	2.704	21.766	30.788	3.474	58.733		$4.816 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	2.728	27.384	38.666	4.403	73.182		$5.120 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	2.765	38.590	54.381	6.311	102.049		$5.581 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	2.805	55.512	78.063	9.240	145.621		$6.071 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	2.851	83.684	117.467	14.310	218.313		$6.628 \times 10^5$	
40.0 TeV	$4.000 \times 10^7$	2.884	111.972	156.974	19.507	291.337		$7.023 \times 10^5$	
80.0 TeV	$8.000 \times 10^7$	2.965	225.335	315.126	41.247	584.675		$7.973 \times 10^5$	
100. TeV	$1.000 \times 10^8$	2.992	282.133	394.282	52.492	731.901		$8.278 \times 10^5$	