

ERRATUM

American National Standard
Gamma-Ray Attenuation Coefficients and Buildup Factors for Engineering Materials
ANSI/ANS-6.4.3.1991 (W2001)

Table 2

Mass Energy Absorption Coefficients (cm²/g)

The stated value of the mass energy absorption coefficient for ¹⁴Si in Table 2, on Page 13, of this standard is 9.663E-2 at 0.015 MeV. This is a typographical error. The correct value is 9.663E+0 as confirmed by Reference [1] of this standard. The corrected table is shown below.

Table 2

Mass Energy Absorption Coefficients (cm²/g)

E(MeV)	¹¹ Na	¹² Mg	¹³ Al	¹⁴ Si	¹⁵ P	¹⁶ S
0.010	1.473E+1	2.001E+1	2.495E+1	3.245E+1	3.865E+1	4.790E+1
0.015	4.244E+0	5.817E+0	7.377E+0	9.663E+0	1.162E+1	1.459E+1
0.020	1.728E+0	2.393E+0	3.056E+0	4.014E+0	4.865E+0	6.156E+0
0.030	4.850E-1	6.757E-1	8.646E-1	1.150E+0	1.404E+0	1.789E+0
0.040	2.000E-1	2.775E-1	3.556E-1	4.730E-1	5.779E-1	7.379E-1
0.050	1.048E-1	1.432E-1	1.816E-1	2.405E-1	2.939E-1	3.734E-1
0.060	6.542E-2	8.715E-2	1.087E-1	1.417E-1	1.716E-1	2.184E-1
0.080	3.730E-2	4.631E-2	5.464E-2	6.840E-2	8.024E-2	9.924E-2
0.100	2.917E-2	3.392E-2	3.773E-2	4.488E-2	5.041E-2	6.024E-2
0.150	2.576E-2	2.762E-2	2.823E-2	3.082E-2	3.183E-2	3.510E-2
0.200	2.635E-2	2.760E-2	2.745E-2	2.905E-2	2.899E-2	3.082E-2
0.300	2.772E-2	2.872E-2	2.817E-2	2.933E-2	2.872E-2	2.987E-2
0.400	2.833E-2	2.928E-2	2.863E-2	2.970E-2	2.895E-2	2.994E-2
0.500	2.845E-2	2.938E-2	2.870E-2	2.973E-2	2.892E-2	2.986E-2
0.600	2.830E-2	2.921E-2	2.851E-2	2.952E-2	2.870E-2	2.961E-2
0.800	2.759E-2	2.847E-2	2.778E-2	2.874E-2	2.792E-2	2.878E-2
1.000	2.667E-2	2.751E-2	2.684E-2	2.776E-2	2.696E-2	2.778E-2
1.500	2.434E-2	2.509E-2	2.447E-2	2.531E-2	2.458E-2	2.531E-2
2.000	2.245E-2	2.317E-2	2.261E-2	2.340E-2	2.273E-2	2.343E-2
3.000	1.992E-2	2.062E-2	2.018E-2	2.095E-2	2.042E-2	2.112E-2
4.000	1.838E-2	1.910E-2	1.877E-2	1.956E-2	1.915E-2	1.988E-2
5.000	1.738E-2	1.814E-2	1.790E-2	1.873E-2	1.840E-2	1.918E-2
6.000	1.672E-2	1.752E-2	1.735E-2	1.822E-2	1.797E-2	1.879E-2
8.000	1.592E-2	1.678E-2	1.674E-2	1.769E-2	1.755E-2	1.846E-2
10.00	1.549E-2	1.643E-2	1.645E-2	1.748E-2	1.742E-2	1.841E-2
15.00	1.505E-2	1.610E-2	1.626E-2	1.741E-2	1.747E-2	1.858E-2
20.00	1.500E-2	1.612E-2	1.637E-2	1.760E-2	1.774E-2	1.892E-2