Nitrogen in Stainless Steel

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SRIM version ---> SRIM-2013.00

Calc. date ---> April 03, 2018

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Disk File Name = SRIM Outputs\Nitrogen in Stainless Steel.txt

Ion = Nitrogen [7] , Mass = 14.003 amu

Target Density = 8.0000E+00 g/cm3 = 8.5951E+22 atoms/cm3

======= Target Composition ========

Atom Name	Atom Numb	Atomic Percent	Mass Percent
Cr	24	008.00	007.42
Fe	26	074.00	073.73
Ni	28	018.00	018.85

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Bragg Correction = 0.00%

Stopping Units = eV / Angstrom

See bottom of Table for other Stopping units

Ion Energy	dE/dx Elec.	dE/dx Nuclear	Projected Range	Longitudinal Straggling	Lateral Straggling
99.9999 eV	1.672E+00	7.904E+00	5 A	6 A	5 A
110 eV	1.753E+00	8.256E+00	5 A	6 A	5 A
120 eV	1.831E+00	8.586E+00	5 A	7 A	5 A
130 eV	1.906E+00	8.897E+00	6 A	7 A	5 A
139.999 eV	1.978E+00	9.192E+00	6 A	7 A	5 A
149.999 eV	2.047E+00	9.472E+00	6 A	7 A	6 A
159.999 eV	2.115E+00	9.738E+00	6 A	8 A	6 A
169.999 eV	2.180E+00	9.993E+00	6 A	8 A	6 A
179.999 eV	2.243E+00	1.024E+01	7 A	8 A	6 A
199.999 eV	2.364E+00	1.069E+01	7 A	9 A	7 A
224.999 eV	2.508E+00	1.122E+01	8 A	9 A	7 A
249.999 eV	2.643E+00	1.170E+01	8 A	10 A	7 A
274.999 eV	2.772E+00	1.214E+01	8 A	10 A	8 A
299.999 eV	2.896E+00	1.255E+01	9 A	11 A	8 A
324.999 eV	3.014E+00	1.294E+01	9 A	11 A	8 A
349.999 eV	3.128E+00	1.330E+01	10 A	11 A	9 A
374.999 eV	3.237E+00	1.363E+01	10 A	12 A	9 A
399.999 eV	3.343E+00	1.395E+01	11 A	12 A	9 A
449.999 eV	3.546E+00	1.454E+01	11 A	13 A	10 A
499.999 eV	3.738E+00	1.507E+01	12 A	14 A	11 A
549.999 eV	3.921E+00	1.556E+01	13 A	15 A	11 A
599.999 eV	4.095E+00	1.600E+01	14 A	15 A	12 A
649.999 eV	4.262E+00	1.641E+01	14 A	16 A	12 A

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699.999 eV	4.423E+00	1.679E+01	15 A	17 A	13 A
799.999 eV	4.728E+00	1.748E+01	17 A	18 A	14 A
899.999 eV	5.015E+00	1.808E+01	18 A	19 A	15 A
999.999 eV	5.286E+00	1.861E+01	19 A	21 A	16 A
1.10 keV	5.545E+00	1.909E+01	21 A	22 A	17 A
1.20 keV	5.791E+00	1.952E+01	22 A	23 A	18 A
1.30 keV	6.028E+00	1.991E+01	23 A	24 A	19 A
1.40 keV	6.255E+00	2.027E+01	24 A	25 A	19 A
1.50 keV	6.475E+00	2.060E+01	26 A	26 A	20 A
1.60 keV	6.687E+00	2.090E+01	27 A	28 A	21 A
1.70 keV	6.893E+00	2.118E+01	28 A	29 A	22 A
1.80 keV	7.093E+00	2.144E+01	29 A	30 A	23 A
2.00 keV	7.476E+00	2.191E+01	32 A	32 A	24 A
2.25 keV	7.930E+00	2.241E+01	35 A	34 A	26 A
2.50 keV	8.359E+00	2.283E+01	37 A	37 A	28 A
2.75 keV	8.767E+00	2.320E+01	40 A	39 A	30 A
3.00 keV	9.156E+00	2.351E+01	43 A	41 A	32 A
3.25 keV	9.530E+00	2.379E+01	46 A	44 A	33 A
3.50 keV	9.890E+00	2.403E+01	49 A	46 A	35 A
3.75 keV	1.024E+01	2.424E+01	51 A	48 A	37 A
4.00 keV	1.057E+01	2.442E+01	54 A	51 A	39 A
4.50 keV	1.121E+01	2.472E+01	60 A	55 A	42 A
5.00 keV	1.182E+01	2.496E+01	65 A	59 A	45 A
5.50 keV	1.240E+01	2.514E+01	70 A	63 A	48 A
6.00 keV	1.295E+01	2.527E+01	76 A	68 A	51 A
6.50 keV	1.348E+01	2.537E+01	81 A	72 A	54 A
7.00 keV	1.399E+01	2.544E+01	86 A	76 A	57 A
8.00 keV	1.495E+01	2.551E+01	97 A	84 A	63 A
9.00 keV	1.586E+01	2.551E+01	108 A	92 A	68 A
10.00 keV	1.672E+01	2.546E+01	118 A	99 A	74 A
11.00 keV	1.753E+01	2.537E+01	129 A	107 A	79 A
12.00 keV	1.831E+01	2.526E+01	140 A	114 A	85 A
13.00 keV	1.906E+01	2.512E+01	150 A	121 A	90 A
14.00 keV	1.978E+01	2.497E+01	161 A	128 A	95 A
15.00 keV	2.047E+01	2.480E+01	171 A	135 A	101 A
16.00 keV	2.115E+01	2.463E+01	182 A	142 A	106 A
17.00 keV	2.180E+01	2.445E+01	193 A	148 A	111 A
18.00 keV	2.243E+01	2.427E+01	203 A	155 A	116 A
20.00 keV	2.364E+01	2.390E+01	225 A	168 A	126 A
22.50 keV	2.508E+01	2.343E+01	252 A	183 A	138 A
25.00 keV	2.643E+01	2.296E+01	279 A	199 A	150 A
27.50 keV	2.772E+01	2.250E+01	306 A	214 A	162 A
30.00 keV	2.859E+01	2.205E+01	333 A	228 A	174 A
32.50 keV	2.948E+01	2.162E+01	360 A	243 A	185 A
35.00 keV	3.040E+01	2.120E+01	388 A	257 A	197 A
37.50 keV	3.134E+01	2.080E+01	416 A	271 A	208 A
40.00 keV	3.233E+01	2.041E+01	444 A	284 A	219 A
45.00 keV	3.462E+01	1.968E+01	499 A	310 A	241 A

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50.00 keV	3.726E+01	1.901E+01	554 A	335 A	262 A
55.00 keV	3.992E+01	1.838E+01	608 A	359 A	283 A
60.00 keV	4.242E+01	1.780E+01	662 A	381 A	303 A
65.00 keV	4.471E+01	1.726E+01	714 A	402 A	322 A
70.00 keV	4.681E+01	1.676E+01	766 A	422 A	340 A
80.00 keV	5.049E+01	1.585E+01	869 A	459 A	375 A
90.00 keV	5.367E+01	1.505E+01	971 A	494 A	408 A
100.00 keV	5.652E+01	1.434E+01	1072 A	527 A	440 A
110.00 keV	5.914E+01	1.371E+01	1173 A	557 A	470 A
120.00 keV	6.161E+01	1.313E+01	1272 A	586 A	499 A
130.00 keV	6.397E+01	1.262E+01	1370 A	613 A	526 A
140.00 keV	6.627E+01	1.214E+01	1468 A	639 A	553 A
150.00 keV	6.852E+01	1.171E+01	1564 A	664 A	579 A
160.00 keV	7.075E+01	1.131E+01	1659 A	687 A	603 A
170.00 keV	7.295E+01	1.094E+01	1754 A	709 A	627 A
180.00 keV	7.514E+01	1.060E+01	1847 A	730 A	650 A
200.00 keV	7.950E+01	9.991E+00	2030 A	769 A	694 A
225.00 keV	8.492E+01	9.332E+00	2251 A	813 A	745 A
250.00 keV	9.029E+01	8.767E+00	2465 A	852 A	793 A
275.00 keV	9.560E+01	8.276E+00	2672 A	888 A	836 A
300.00 keV	1.008E+02	7.844E+00	2872 A	920 A	876 A
325.00 keV	1.060E+02	7.462E+00	3066 A	949 A	914 A
350.00 keV	1.110E+02	7.119E+00	3253 A	975 A	949 A
375.00 keV	1.160E+02	6.811E+00	3435 A	999 A	982 A
400.00 keV	1.208E+02	6.532E+00	3611 A	1021 A	1012 A
450.00 keV	1.300E+02	6.046E+00	3949 A	1060 A	1068 A
500.00 keV	1.388E+02	5.636E+00	4271 A	1094 A	1118 A
550.00 keV	1.470E+02	5.284E+00	4577 A	1124 A	1163 A
600.00 keV	1.548E+02	4.978E+00	4871 A	1150 A	1203 A
650.00 keV	1.621E+02	4.710E+00	5154 A	1173 A	1240 A
700.00 keV	1.690E+02	4.473E+00	5427 A	1194 A	1274 A
800.00 keV	1.817E+02	4.070E+00	5948 A	1232 A	1335 A
900.00 keV	1.931E+02	3.741E+00	6441 A	1263 A	1388 A
1.00 MeV	2.034E+02	3.467E+00	6912 A	1290 A	1435 A

Multiply Stopping by	for Stopping Units
1.0000E+00	eV / Angstrom
1.0000E+01	keV / micron
1.0000E+01	MeV / mm
1.2500E-02	keV / (ug/cm2)
1.2500E-02	MeV / (mg/cm2)
1.2500E+01	keV / (mg/cm2)
1.1635E+00	eV / (1E15 atoms/cm2)
1.3250E-02	L.S.S. reduced units

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