Argon 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\Argon in Stainless Steel.txt

Ion = Argon [18] , Mass = 39.962 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	1.787E+00	1.945E+01	4 A	4 A	3 A
110 eV	1.874E+00	2.046E+01	4 A	4 A	3 A
120 eV	1.957E+00	2.143E+01	5 A	4 A	3 A
130 eV	2.037E+00	2.235E+01	5 A	4 A	3 A
139.999 eV	2.114E+00	2.323E+01	5 A	4 A	3 A
149.999 eV	2.188E+00	2.408E+01	5 A	4 A	3 A
159.999 eV	2.260E+00	2.489E+01	5 A	5 A	3 A
169.999 eV	2.329E+00	2.567E+01	5 A	5 A	4 A
179.999 eV	2.397E+00	2.643E+01	6 A	5 A	4 A
199.999 eV	2.527E+00	2.787E+01	6 A	5 A	4 A
224.999 eV	2.680E+00	2.955E+01	6 A	5 A	4 A
249.999 eV	2.825E+00	3.112E+01	7 A	5 A	4 A
274.999 eV	2.963E+00	3.259E+01	7 A	6 A	4 A
299.999 eV	3.095E+00	3.398E+01	7 A	6 A	4 A
324.999 eV	3.221E+00	3.529E+01	7 A	6 A	5 A
349.999 eV	3.343E+00	3.654E+01	8 A	6 A	5 A
374.999 eV	3.460E+00	3.773E+01	8 A	7 A	5 A
399.999 eV	3.573E+00	3.887E+01	8 A	7 A	5 A
449.999 eV	3.790E+00	4.100E+01	9 A	7 A	5 A
499.999 eV	3.995E+00	4.298E+01	9 A	7 A	6 A
549.999 eV	4.190E+00	4.482E+01	10 A	8 A	6 A
599.999 eV	4.376E+00	4.654E+01	10 A	8 A	6 A
649.999 eV	4.555E+00	4.816E+01	11 A	8 A	6 A

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699.999 eV	4.727E+00	4.969E+01	11 A	9 A	7 A
799.999 eV	5.053E+00	5.251E+01	12 A	9 A	7 A
899.999 eV	5.360E+00	5.507E+01	13 A	10 A	7 A
999.999 eV	5.650E+00	5.742E+01	13 A	10 A	8 A
1.10 keV	5.926E+00	5.958E+01	14 A	11 A	8 A
1.20 keV	6.189E+00	6.159E+01	15 A	11 A	8 A
1.30 keV	6.442E+00	6.346E+01	16 A	12 A	9 A
1.40 keV	6.685E+00	6.521E+01	16 A	12 A	9 A
1.50 keV	6.920E+00	6.686E+01	17 A	13 A	9 A
1.60 keV	7.147E+00	6.841E+01	18 A	13 A	10 A
1.70 keV	7.367E+00	6.988E+01	18 A	14 A	10 A
1.80 keV	7.580E+00	7.127E+01	19 A	14 A	10 A
2.00 keV	7.990E+00	7.386E+01	20 A	15 A	11 A
2.25 keV	8.475E+00	7.677E+01	22 A	16 A	12 A
2.50 keV	8.933E+00	7.939E+01	23 A	17 A	12 A
2.75 keV	9.369E+00	8.176E+01	25 A	18 A	13 A
3.00 keV	9.786E+00	8.393E+01	26 A	19 A	13 A
3.25 keV	1.019E+01	8.591E+01	27 A	20 A	14 A
3.50 keV	1.057E+01	8.775E+01	29 A	20 A	15 A
3.75 keV	1.094E+01	8.945E+01	30 A	21 A	15 A
4.00 keV	1.130E+01	9.103E+01	31 A	22 A	16 A
4.50 keV	1.199E+01	9.389E+01	34 A	24 A	17 A
5.00 keV	1.263E+01	9.640E+01	36 A	25 A	18 A
5.50 keV	1.325E+01	9.864E+01	39 A	27 A	19 A
6.00 keV	1.384E+01	1.006E+02	41 A	28 A	20 A
6.50 keV	1.440E+01	1.025E+02	44 A	29 A	21 A
7.00 keV	1.495E+01	1.041E+02	46 A	31 A	22 A
8.00 keV	1.598E+01	1.069E+02	51 A	33 A	24 A
9.00 keV	1.695E+01	1.093E+02	55 A	36 A	26 A
10.00 keV	1.787E+01	1.114E+02	60 A	39 A	28 A
11.00 keV	1.874E+01	1.131E+02	64 A	41 A	30 A
12.00 keV	1.957E+01	1.146E+02	68 A	43 A	31 A
13.00 keV	2.037E+01	1.159E+02	73 A	46 A	33 A
14.00 keV	2.114E+01	1.171E+02	77 A	48 A	35 A
15.00 keV	2.188E+01	1.180E+02	81 A	51 A	36 A
16.00 keV	2.260E+01	1.189E+02	86 A	53 A	38 A
17.00 keV	2.329E+01	1.197E+02	90 A	55 A	40 A
18.00 keV	2.397E+01	1.203E+02	94 A	57 A	41 A
20.00 keV	2.527E+01	1.214E+02	102 A	62 A	44 A
22.50 keV	2.680E+01	1.224E+02	113 A	67 A	48 A
25.00 keV	2.825E+01	1.231E+02	123 A	72 A	52 A
27.50 keV	2.963E+01	1.235E+02	133 A	78 A	56 A
30.00 keV	3.095E+01	1.238E+02	143 A	83 A	59 A
32.50 keV	3.221E+01	1.239E+02	154 A	88 A	63 A
35.00 keV	3.343E+01	1.238E+02	164 A	93 A	66 A
37.50 keV	3.460E+01	1.237E+02	174 A	98 A	70 A
40.00 keV	3.573E+01	1.235E+02	184 A	103 A	73 A
45.00 keV	3.790E+01	1.229E+02	205 A	113 A	80 A

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50.00 keV	3.995E+01	1.220E+02	225 A	122 A	87 A
55.00 keV	4.190E+01	1.211E+02	246 A	132 A	94 A
60.00 keV	4.376E+01	1.201E+02	266 A	141 A	100 A
65.00 keV	4.555E+01	1.190E+02	287 A	151 A	107 A
70.00 keV	4.727E+01	1.178E+02	307 A	160 A	113 A
80.00 keV	5.052E+01	1.155E+02	349 A	178 A	126 A
90.00 keV	5.255E+01	1.131E+02	391 A	196 A	139 A
100.00 keV	5.464E+01	1.108E+02	434 A	214 A	152 A
110.00 keV	5.671E+01	1.085E+02	477 A	232 A	164 A
120.00 keV	5.900E+01	1.063E+02	521 A	249 A	177 A
130.00 keV	6.168E+01	1.042E+02	565 A	266 A	189 A
140.00 keV	6.465E+01	1.021E+02	608 A	283 A	202 A
150.00 keV	6.771E+01	1.001E+02	652 A	300 A	214 A
160.00 keV	7.072E+01	9.825E+01	696 A	316 A	227 A
170.00 keV	7.360E+01	9.642E+01	740 A	331 A	239 A
180.00 keV	7.634E+01	9.467E+01	784 A	347 A	252 A
200.00 keV	8.141E+01	9.137E+01	872 A	377 A	276 A
225.00 keV	8.712E+01	8.759E+01	981 A	413 A	307 A
250.00 keV	9.232E+01	8.416E+01	1091 A	447 A	336 A
275.00 keV	9.716E+01	8.102E+01	1201 A	481 A	365 A
300.00 keV	1.018E+02	7.815E+01	1311 A	513 A	394 A
325.00 keV	1.062E+02	7.550E+01	1420 A	544 A	421 A
350.00 keV	1.105E+02	7.306E+01	1530 A	575 A	449 A
375.00 keV	1.147E+02	7.080E+01	1639 A	604 A	476 A
400.00 keV	1.188E+02	6.870E+01	1747 A	632 A	502 A
450.00 keV	1.268E+02	6.490E+01	1963 A	685 A	554 A
500.00 keV	1.345E+02	6.157E+01	2177 A	735 A	603 A
550.00 keV	1.421E+02	5.862E+01	2387 A	782 A	651 A
600.00 keV	1.494E+02	5.598E+01	2594 A	825 A	697 A
650.00 keV	1.566E+02	5.361E+01	2799 A	866 A	741 A
700.00 keV	1.636E+02	5.146E+01	3000 A	905 A	783 A
800.00 keV	1.769E+02	4.771E+01	3393 A	976 A	864 A
900.00 keV	1.894E+02	4.455E+01	3774 A	1040 A	938 A
1.00 MeV	2.012E+02	4.184E+01	4145 A	1097 A	1007 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)
2.7747E-03	L.S.S. reduced units

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