

TABLE XXV. SIZE FACTOR^a—Continued

Element	Calculated from Eshelby's approach			Calculated from Friedel's approach	Mean or chosen value ^b
	From modified Leibfried No.	From Bragg No.	Best value		
64 Gd	12.48	12.26	12.26	14.31	13.29 ±1.03
65 Tb	12.67	11.33	11.33	14.47	12.90 ±1.57
66 Dy	12.53	(11.10) ^c	12.53	15.08	13.96 ±1.43
67 Ho	12.35	12.55	12.55	15.17	13.86 ±1.31
68 Er	12.15	(10.76) ^c	12.15	15.19	13.67 ±1.52
69 Tm	(12.30) ^c	(13.63) ^c	(13.63) ^c	15.79	14.71 ±1.08
70 Yb	16.18	15.21	15.21	18.12	16.67 ±1.46
71 Lu	(12.14) ^c	(10.75) ^c	(10.75) ^c	13.13	11.94 ±1.19
72 Hf	11.82	(11.40) ^c	11.82	12.95	12.39 ±0.57
73 Ta	12.54	(12.10) ^c	12.54	12.21	12.38 ±0.17
74 W	10.17	11.23	11.23	10.81	11.02 ±0.21
75 Re	10.74	(10.32) ^c	10.74	11.61	11.18 ±0.44
76 Os	(10.03) ^c	(9.63) ^c	(9.64) ^c	(11.01) ^c	10.32 ±0.69
77 Ir	9.30	(8.94) ^c	9.30	10.77	10.04 ±0.74
78 Pt	12.67	12.21	12.21	10.22	11.22 ±1.00
79 Au	13.64	12.89	12.89	9.88	11.39 ±1.51
80 Hg	8.03	8.43	8.43	8.07	8.25 ±0.18
81 Tl	18.27	17.69	17.69	9.59	9.59 ^d
82 Pb	15.17	13.28	13.28	9.95	11.62 ±1.67
83 Bi	14.99	13.69	13.69	15.58	14.64 ±0.95
84 Po	(9.98) ^c	(9.09) ^c	(9.09) ^c	(9.81) ^c	9.45 ±0.36
87 Fr	(15.22) ^c	(14.69) ^c	(14.69) ^c	(14.31) ^c	14.50 ±0.19
88 Ra	(12.88) ^c	(12.34) ^c	(12.34) ^c	(13.68) ^c	13.01 ±0.67
89 Ac	(15.57) ^c	(14.97) ^c	(14.97) ^c	(17.59) ^c	16.28 ±1.31
90 Th	12.30	(11.87) ^c	12.30	13.64	12.97 ±0.67
91 Pa	(11.61) ^c	(10.58) ^c	(10.58) ^c	(12.88) ^c	11.73 ±1.15
92 U	8.07	(7.79) ^c	8.07	10.33	9.20 ±1.13
93 Np	(8.76) ^c	(8.45) ^c	(8.45) ^c	(10.03) ^c	9.24 ±0.79
94 Pu	9.73	6.09	6.09	11.81	8.95 ±2.86

^a All values given in percent.

^b Mean or chosen value determined from "Best value, Eshelby's approach" and from "Friedel's approach" (columns 4 and 5, respectively). Most values are means; chosen values are indicated.

^c Estimated value; see text for further discussion.

^d Chosen value; see text for further discussion.

^e Using the larger value for the compressibility of sulfur, the size factor is 16.02%. See discussion concerning the choice of compressibility value.