

MATERIAL: 6061 Aluminum							
WAFER: Solid, Unconfined							
ANVIL LUBRICANT: Molybdenum Disulphide							
D/H = 8.33				D/H = 4.66			
FORCE (Kips)	DIA. (in)	σ_t/σ_o	R/R _o	FORCE (Kips)	DIA. (in)	σ_t/σ_o	R/R _o
0	1.500	0	1.000	0	1.242	0	1.000
22	1.505	1.13	1.003	14	1.251	1.05	1.008
24	1.506	1.23	1.004	18	1.256	1.36	1.012
28	1.512	1.44	1.009	24	1.271	1.84	1.025
32	1.519	1.65	1.012	28	1.287	2.11	1.036
36	1.535	1.86	1.023	32	1.307	2.41	1.052
40	1.555	2.06	1.037	36	1.334	2.71	1.076
44	1.579	2.26	1.052	40	1.375	3.01	1.109
48	1.601	2.47	1.069	44	1.406	3.31	1.133
52	1.621	2.67	1.081	48	1.425	3.61	1.149
56	1.657	2.88	1.104	52	1.458	3.91	1.174
60	1.687	3.08	1.123	56	1.490	4.21	1.201
				60	1.509	4.52	1.217

TABLE 6 EXPERIMENTAL DATA FOR COMPRESSION OF SOLID, UNCONFINED 6061 ALUMINUM WAFERS