

MATERIAL: 303 Stainless Steel, D/H = 3.19 WAFER: Solid, Unconfined INITIAL O.D. = 0.997" ; INITIAL HEIGHT = 0.313"							
ANVIL LUBRICANT				ANVIL LUBRICANT			
Molybdenum Disulphide				Iron Oxide			
FORCE (Kips)	DIA. (in)	σ_t/σ_o	R/R _o	FORCE (Kips)	DIA. (in)	σ_t/σ_o	R/R _o
0	0.997	0	1.000	0	0.997	0	1.000
40	1.003	1.33	1.008	40	0.998	1.36	1.001
80	1.063	2.36	1.066	80	1.035	2.50	1.041
120	1.116	3.22	1.119	120	1.075	3.47	1.072
160	1.155	4.01	1.158	160	1.113	4.31	1.121
200	1.209	4.58	1.212	200	1.150	5.06	1.158
240	1.262	5.04	1.265	240	1.184	5.72	1.192
280	1.312	5.61	1.315	280	1.218	6.33	1.225
				320	1.247	6.88	1.254
				360	1.280	7.35	1.288

TABLE I EXPERIMENTAL DATA FOR COMPRESSION OF SOLID, UNCONFINED 303 STAINLESS STEEL WAFERS