

<u>MATERIAL:</u> Armco Iron,				D/H = 3.66		
<u>WAFER:</u> Unconfined;				<u>INITIAL I.D.</u> = 0.250"		
<u>ANVIL LUBRICANT:</u> Molybdenum Disulphide						
<u>INITIAL O.D.</u> = 1.008" ;				<u>INITIAL HEIGHT</u> = 0.275"		
SOLID				HOLLOW		
FORCE (Kips)	DIA. (in)	$\sigma_1/\sigma_0$	R/R <sub>0</sub>	FORCE (Kips)	DIA. (in)	R/R <sub>0</sub>
0	1.008	0	1.000	0	1.008	1.000
20	1.009	0.72	1.001	20	1.009	1.001
40	1.030	1.37	1.022	40	1.030	1.022
60	1.096	1.82	1.088	60	1.092	1.085
80	1.154	2.17	1.147	80	1.169	1.162
100	1.246	2.34	1.238	100	1.241	1.234
105	1.258	2.41	1.250	105	1.259	1.252
110	1.273	2.47	1.265	110	1.282	1.275
115	1.293	2.49	1.285	115	1.295	1.288
120	1.307	2.55	1.300	120	1.313	1.306

Final I.D. = 0.185"

TABLE 5 EXPERIMENTAL DATA FOR COMPRESSION OF SOLID AND HOLLOW, UNCONFINED ARMCO IRON WAFERS