Table 10

HUGONIOT DATA FOR SEVEN METALS OBTAINED BY IMPACT FROM IRON FLYER PLATE AT 14.68 mm/μsec FROM REFERENCE 10

	Metal						
	Fe	Ni	Cu	Zn	Cd	Sn	Pb
Shock Velocity (mm/μsec)	15.10	14.60	14.20	14.19	12.99	12.98	11.36
Particle Velocity (mm/μsec)	7.34	7.09	7.15	7.78	7.49	7.96	7.00
Pressure (kbar)	8700	9180	9070	7860	8410	7520	9150
ρ/ρ_o	1.947	1.944	2.014	2.214	2.362	2.585	2.666

Table 11

HUGONIOT DATA FOR POROUS TUNGSTEN FROM IMPEDANCE MATCH METHOD USING ALUMINUM AND IRON DRIVER PLATES AS STANDARD FROM REFERENCE 12

Driver Plate Material and Pressure (kbar)	Porosity* $m = \rho_o/\rho_{oo}$	Shock Velocity (mm/μsec)	Particle Velocity (mm/μsec)	Pressure (kbar)	$m\sigma$	$\sigma = \rho/\rho_o$	No. of Shots
Iron P = 3585	1.03	8.11	3.26	5010	1.673	1.635	3
	1.70	8.02	4.12	3760	2.058	1.211	5
	2.11	7.80	4.53	3240	2.385	1.131	3
	2.99	7.95	5.09	2620	2.775	0.928	5
	4.3	8.11	5.63	2050	3.264	0.759	1
Iron P = 1390	1.03	6.01	1.74	1980	1.406	1.365	2
	1.76	5.01	2.39	1320	1.912	1.086	5
	2.15	4.96	2.60	1160	2.102	0.978	4
	2.96	4.78	2.93	910	2.577	0.871	4
Aluminum P = 258	1.76	2.56	1.12	315	1.778	1.011	10
	3.06	2.29	1.51	219	2.936	0.960	13
	3.99	2.28	1.67	185	3.726	0.934	3

* ρ_o = crystal density, ρ_{oo} = apparent density of porous material.