

Table 10

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

	Metal						
	Fe	Ni	Cu	Zn	Cd	Sn	Pb
Shock Velocity (mm/ μ sec)	15.10	14.60	14.20	14.19	12.99	12.98	11.36
Particle Velocity (mm/ μ sec)	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_0	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* $m = \rho_0/\rho_{00}$	Shock Velocity (mm/ μ sec)	Particle Velocity (mm/ μ sec)	Pressure (kbar)	$m\sigma$	$\sigma = \rho/\rho_0$	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_0 = crystal density, ρ_{00} = apparent density of porous material.