

Physical Property Standards of Tungsten Super Shot		
	D18	D18.5
Nominal Tungsten Weight %	95	97
Density g/cc	17.75-18.25	18.25-18.75
Hardness Rockwell C , max	34	35
Ultimate Strength, ksi (mpa), min	105(724)	100(689)
0.2% offset Yield, ksi (mpa), min	75 (517)	75(517)
Elongation %, min	3	2
Tolerances for Dimensions	± 0.02mm	± 0.02mm
Surface Roughness, μ m :	1.6	1.6

ENERGY COMPARISON - #7 & #9 TSS vs. #5 LEAD SHOT

	PENETRATION ENERGY (lb-ft/in ²)					
	DENSITY	YARDS				
	LBS/IN ³	0	10	20	30	40
#5 LEAD 4% Sb	0.38868	707.7	556.9	416.0	314.5	241.3
#7 TSS 18 g/cc	0.6503	970.2	888.1	761.4	638.6	536.1
#9 TSS 18 g/cc	0.6503	776.1	693.3	570.7	460.8	374.4

	VELOCITY (FPS)					
	DENSITY	YARDS				
	LBS/IN ³	0	10	20	30	40
#5 LEAD 4% Sb	0.38868	1200	1065	920	800	701
#7 TSS 18 g/cc	0.6503	1200	1148	1063	974	892
#9 TSS 18 g/cc	0.6503	1200	1134	1029	925	834

	PELLET ENERGY (lb-ft)					
	DENSITY	YARDS				
	LBS/IN ³	0	10	20	30	40
#5 LEAD 4% Sb	0.38868	8.00	6.30	4.70	3.56	2.73
#7 TSS 18 g/cc	0.6503	7.62	6.98	5.98	5.02	4.21
#9 TSS 18 g/cc	0.6503	3.90	3.48	2.87	2.32	1.88



50		60	
187.6		147.1	
453.0		386.2	
306.0		251.0	

50		60	
618		547	
820		757	
753		682	

50		60	
2.12		1.66	
3.56		3.03	
1.54		1.26	