

Mechanical Properties of Tungsten

Property	Figure
Bulk Modulus/Pa	$3.108 \times 10^{11} - 1.759 \times 10^{17}T + 0.344 \times 10^{3}T^2$
Shear Modulus/Pa	$1.603 \times 10^{11} - 1.456 \times 10^{17}T + 3.28 \times 10^{3}T^2$
Modulus of Elasticity/Gpa	390
Vickers Hardness HV	
Slight Deformation > 1.0mm sheet, wire	3000 ~ 5000
Big Deformation < 1.0mm sheet, wire	5000 ~ 7000
Recrystallization	3600
Tensile Strength/MPa	
Slight Deformation > 1.0mm sheet, wire	980 ~ 1750
Big Deformation < 1.0mm sheet, wire	1470 ~ 1960
Recrystallization	980 ~ 1190