

# TANW Data Sheet

## General Properties

Wire Diameter (um)	100	125	150	175	200	250	300	350	380	400	450	500	
Type	Soft1				Soft2								
Tolerance (um)	+/- 5.0				+/- 7.0								+/- 10.0
Breaking Load (gf)	50-80	70-120	100-200	140-240	140-200	210-300	300-420	450-550	500-700	550-750	700-850	800-1,100	
Elongation (%)	Room Temp. 10.0-30.0												
maximum winding length (m)	1,000 / No.88B				800 / No.88			500 / No.88			300 / No.88		

## Physical Property

Hardness (HV)	Wire	20 - 40				15 - 35							
Density (g/cm <sup>3</sup> )	2.7												
Resistivity (uΩ cm) @ 20°C	2.7												
Fusing Current (A, Length=10mm,10sec)	1.7	2.6	3.7	5.1	6.6	10	15	20	24	26	34	41	
Electrical resistance (mΩ, Length 10mm, Room Temp.)	31.2 - 38.1	20.3 - 23.9	14.3 - 16.4	10.6 - 11.9	8.2 - 9.0	5.2 - 5.8	3.6 - 4.0	2.7 - 2.9	2.3 - 2.5	2.1 - 2.2	1.6 - 1.8	1.3 - 1.4	
Thermal Conductivity @ 20°C (W/m/K)	238												
Linear Expansion Coefficient (0-100°C) (ppm/K)	23.5												
Elastic Modulus (GPa)	30 - 50				10 - 40				5 - 20				
Melting Point (°C)	660												