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)	Room Temp.	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 (%)		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^3)		2.7											
Resistivity (u Ω 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											

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TABN Data Sheet

General Properties

Wire Diameter (um)		18	20	25	30	32	35	38	40	50	80
Tolerance (um)		+/- 1.0							+/- 2.0		+/- 3.0
Weight (mg/200mm)		0.12-0.15	0.15-0.19	0.24-0.29	0.36-0.41	0.41-0.46	0.49-0.55	0.58-0.65	0.61-0.75	0.98-1.15	2.51-2.92
Breaking Load (gf)	Room Temp.	6.7 - 7.5	8.0 - 10.0	13.0 - 15.0	17.0 - 19.0	19.0 - 21.0	26.0 - 29.0	31.0 - 34.0	340. - 38.0	47.0 - 53.0	130 - 150
Elongation (%)		0.5 - 4.5					0.5 - 5.0			0.5 - 6.0	

Physical Property

Hardness (HV)	Wire	20 - 40
Density (g/cm^3)		2.7
Resistivity (u Ω cm) @ 20°C		3.1
Fusing Current (A, Length=3mm,10sec)		0.3 / 0.4 / 0.6 / 0.8 / 0.9 / 1.1 / 1.3 / 1.4 / 2.2 / 5.8
Electrical resistance (Ω, Length 10mm, Room Temp.)		1.09 - 1.37 / 0.90 - 1.09 / 0.58 - 0.69 / 0.41 - 0.47 / 0.36 - 0.41 / 0.30 - 0.34 / 0.26 - 0.29 / 0.22 - 0.27 / 0.15 - 0.17 / 0.06 - 0.07
Thermal Conductivity @ 20°C (W/m/K)		207
Linear Expansion Coefficient (0-100°C) (ppm/K)		23.6
Elastic Modulus (GPa)		15 - 40
Melting Point (°C)		654

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TABR Data Sheet

General Properties

Width (mm)		**0.50**	**0.75**	**1.00**	**1.00**	**1.50**	**1.50**	**1.50**	**1.50**	**1.50**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**
Tolerance (mm)		+/-0.050	+/-0.050	+/-0.050	+/-0.050	+/-0.075	+/-0.075	+/-0.075	+/-0.075	+/-0.075	+/-0.100	+/-0.100	+/-0.100	+/-0.100	+/-0.100	+/-0.100
Thickness (mm)		**0.10**	**0.10**	**0.10**	**0.20**	**0.10**	**0.15**	**0.20**	**0.25**	**0.30**	**0.10**	**0.15**	**0.20**	**0.25**	**0.30**	**0.40**
Tolerance (mm)		+/-0.010	+/-0.010	+/-0.010	+/-0.020	+/-0.010	+/-0.015	+/-0.020	+/-0.025	+/-0.030	+/-0.010	+/-0.015	+/-0.020	+/-0.025	+/-0.030	+/-0.040
Breaking Load (gf)	Room Temp.	275-425	413-638	550-850	900-1,500	675-1,125	1,013-1,688	1,350-2,250	1,688-2,813	2,025-3,375	900-1,500	1,350-2,250	1,800-3,000	2,250-3,750	2,700-4,500	3,600-6,000
Elongation (%)	Room Temp.	10.0 ≦														
maximum winding length (m)	No.88	200	300	200	100	100	100	100	100	50	100	100	100	50	50	50
	No.120	—	500	600	500	600	500	400	300	250	500	400	300	200	200	150

Physical Property

Hardness (HV)	Ribbon	15 - 30													
Density (g/cm^3)		2.7													
Resistivity ($u\Omega cm$) @ 20°C		2.7													
Fusing Current (A, Length=10mm,10sec)		11	16	21	42	32	48	63	79	95	42	63	85	106	127	169
Electrical resistance (mΩ, Length 10mm, Room Temp.)		4.5 - 6.7	3.1 - 4.3	2.3 - 3.2	1.2 - 1.6	1.6 - 2.1	1.0 - 1.4	0.8 - 1.1	0.6 - 0.8	0.5 - 0.7	1.2 - 1.6	0.8 - 1.1	0.6 - 0.8	0.5 - 0.6	0.4 - 0.5	0.3 - 0.4
Thermal Conductivity @ 20°C (W/m/K)		238													
Linear Expansion Coefficient (0-100°C) (ppm/K)		23.5													
Elastic Modulus (GPa)		20 - 50													
Melting Point (°C)		660													