

CHR-1BK Data Sheet

General Properties

Wire Diameter (μm)		15	18	20	23	25	28	30
Tolerance (μm)		+/- 1.0						
Weight (mg/200mm)		0.276 - 0.360	0.407 - 0.508	0.508 - 0.621	0.681 - 0.811	0.811 - 0.951	1.026 - 1.184	1.184 - 1.353
Breaking Load (gf)	Room Temp.	2.8 - 5.5	4.0 - 8.0	4.9 - 9.9	7.0 - 13.6	8.2 - 15.9	10.3 - 20	11.9 - 23
Elongation (%)		5.0 - 25						

Physical Property

Hardness (HV)	Free Air Ball	55 -75						
	HAZ	65-80						
	Wire	70-90						
Density (g/cm^3)		8.96						
Resistivity ($\mu\Omega\text{ cm}$) @ 20°C		1.9						
Fusing Current (A, Length=3mm, 10sec)		0.4	0.6	0.7	0.9	1.1	1.4	1.6
Electrical resistance (Ω , Length 10mm, Room Temp.)		0.94 - 1.23	0.67 - 0.84	0.55 - 0.67	0.42 - 0.50	0.36 - 0.42	0.29 - 0.33	0.25 - 0.29
Thermal Conductivity @ 20°C (W/m/K)		385						
Linear Expansion Coefficient (0-100°C) (ppm/K)		17.0						
Elastic Modulus (GPa)		60-85						
Melting Point (°C)		1,083						