

# CHR-1BK Data Sheet

## General Properties

Wire Diameter ( $\mu\text{m}$ )	<b>15</b>	<b>18</b>	<b>20</b>	<b>23</b>	<b>25</b>	<b>28</b>	<b>30</b>	
Tolerance ( $\mu\text{m}$ )	<b>+/- 1.0</b>							
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	<b>55 -75</b>					
	HAZ	<b>65-80</b>					
	Wire	<b>70-90</b>					
Density ( $\text{g}/\text{cm}^3$ )	<b>8.96</b>						
Resistivity ( $\mu\Omega\text{ cm}$ ) @ 20°C	<b>1.9</b>						
Fusing Current (A, Length=3mm, 10sec)	<b>0.4</b>	<b>0.6</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>	<b>1.4</b>	<b>1.6</b>
Electrical resistance ( $\Omega$ , 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)	<b>385</b>						
Linear Expansion Coefficient (0-100°C) (ppm/K)	<b>17.0</b>						
Elastic Modulus (GPa)	<b>60-85</b>						
Melting Point (°C)	<b>1,083</b>						