



Properties of Neyoro™ K

Neyoro K is a markedly lower cost gold base alloy developed by Deringer Ney to counter the increasing costs of precious metals yet maintain the benefits of the traditional, higher gold content alloys. It is particularly well suited for uses where good wear resistance and low electrical noise is required, for example in slip ring and sliding contact applications.

Mechanical and Electrical Properties: Wire, 0.003" – 0.010" Strip, 0.003" – 0.020"

Properties of Neyoro K		Condition		
		Annealed	Stress Relieved	Age Hardened
Ultimate Tensile Strength (ksi)	Wire Strip	75 – 120	120 – 150	130 – 160
		95 – 125	----	110 – 140
Yield Strength (ksi)	Wire Strip	----	----	115 – 145 ----
Elongation (% in 2")	Wire Strip	6 min.	1 – 10	1 – 10
		6 min.	----	1 – 10
Hardness (Knoop)	Wire Strip	190 – 240	260 – 300	280 – 345
		245 – 285	----	270 – 320
Electrical Conductivity (%IACS, Nominal) Electrical Resistivity (microhm-cm, Nominal)		10.6	9.9	15.3
		16.4	17.4	11.3
Physical Properties				
Solidus (°C)	864	Modulus of Elasticity (x 10 ⁶ psi)	15	
Density (dwt / in ³)	140.5	Linear Coef. of Thermal Expansion [°C (23 – 500°C)]	16.7 x 10 ⁻⁶	

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