

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.

General Alloy Overview

ASTM	Application Examples	Industry Examples	Tempers	Available Forms
Constant (Temper - Independent) Properties				
Solidus °C	864	Linear Coef. of Thermal Expansion [°C (23 – 500°C)]	16.7 x 10 ⁻⁶	
Density (dwt / in ³)	140.5	Nobility, %	70.93	
Modulus of Elasticity (x 10 ⁶ psi)	15			

Temper Dependent Properties

	Annealed	Stress Relieved	Age Hardened
UTS, ksi (MPa)	75 – 120	120-150	130-160
Yield Strength (ksi)	-	-	115-145
Elongation, % In 2 inches	6 min	1-10	1-10
Hardness Knoop, Hk 100 gr	190 – 240	260-300	280-345
Electrical Conductivity, %IACS	10.6	9.9	15.3
Electrical Resistivity (microhm-cm, Nominal)	10.6	17.4	11.3
Strip			
Ultimate Tensile Strength (ksi)	95 - 125	-	110-140
Yield Strength (ksi)	-	-	-
Elongation (% in 2")	6 min	1-10	1-10
Hardness (Knoop)	245-285	-	270-320
Electrical Conductivity (%IACS, Nominal)	10.6	9.9	15.3
Electrical Resistivity (microhm-cm, Nominal)	16.4	17.4	11.3

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