

HM Wire International, Inc.
 Ph: 330-244-8501 Fax: 330-244-8561
 www.litz-wire.com info@litz-wire.com www.hmwire.com



Nichrome 80/20

Nominal Data Sheet

Nominal Composition

Chromium:	19.50%
Silicon:	1.25%
Iron:	0.50%
Manganese:	0.40%
Nickel:	Balance

Typical Mechanical Properties for Annealed Wire

Ultimate Tensile Strength	105,000 PSI
Yield Strength (.2% offset)	50,000 PSI
Elongation in 2" *	35%
Modulus of Elasticity (Tension)	31 x 10 ⁶ PSI

* The measured elongation will be less as thickness decreases to .002" and less

Physical Properties

Density	0.304 lbs/cu/in
Melting Point (approx.)	1400°C
Electrical Resistivity @ RT	108 Microm ² cm
Temperature Coefficient of Resistivity (25° to 105°C)	100 ppm / °C
Thermal Expansion Coefficient (20° to 100°C)	13.4 x 10 ⁶ / °C
Thermal Conductivity @ 100°C	15.0 W/m ² K
Magnetic Attraction	None

*To be used as a guideline Copyright 2010 Hm Wire International R1.03.24.2010