

RELIABLE PIPES & TUBES LTD.

GOVT. OF INDIA RECOGNIZED EXPORT HOUSE
OHSAS 18001:2007 CERTIFIED ISO 14001:2004 CERTIFIED
ISO 9001:2008 CERTIFIED PED CERT NO 01 202 IND/Q-11-0033

C-16, Anand Bhuvan, 163-165, V.P.Road, Mumbai -400004, Maharashtra, India
Phone : +91 22 43431313 (25 Lines) | Fax : +91 22 2389 4511
Email : sales@reliablenickelalloys.com | www.reliablenickelalloys.com

ALLOY 31 • UNS N08031

Mechanical Properties

	Temper	Annealed
Tensile Rm	94	ksi (min)
Tensile Rm	650	MPa (min)
R.p. 0.2% Yield	41	ksi (min)
R.p. 0.2% Yield	280	MPa (min)
Elongation (2.02 or 4D gl)	40	% (min)

Physical Properties (Room Temperature)

Specific Heat (0-100°C)	452	J.kg-1.°K-1
Thermal Conductivity	11.7	W.m -1.°K-1
Thermal Expansion	18.1	mm/m/°C
Modulus Elasticity	198	GPa
Electrical Resistivity	1.03	μohm/cm
Density	8.61	g/cm3

RELIABLE PIPES & TUBES LTD.

GOVT. OF INDIA RECOGNIZED EXPORT HOUSE

OHSAS 18001:2007 CERTIFIED

ISO 14001:2004 CERTIFIED

ISO 9001:2008 CERTIFIED

PED CERT NO 01 202 IND/Q-11-0033

C-16, Anand Bhuvan, 163-165, V.P.Road, Mumbai -400004, Maharashtra, India

Phone : +91 22 43431313 (25 Lines) | Fax : +91 22 2389 4511

Email : sales@reliablenickelalloys.com | www.reliablenickelalloys.com

Chemical Composition (% by weight)

Element	Min	Max
C	-	0.0015
Si	-	0.3
Mn	-	2
P	-	0.02
S	-	0.01
Cr	26	28
Cu	1	1.4
Fe		Balance
Mo	6	7
N	0.15	0.25
Ni		