



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 59 – UNS 06059

Tensile Strength			Yield Strength											
Alloy	UNS Designation	Spec.	psi	MPa	ksi	psi	MPa	ksi	Elongation in 2 in. (min.) %	Grain Size Req.	Max. Hardness	Modulus of Elasticity (x10 ⁶ psi)	Mean Coefficient of Thermal Expansion (IN./IN./°F x 10 ⁻⁶)	Thermal Conductivity (BTU-in/ft ² -h-°F)
59	N06059	B619, B626	100,000	690	100	45,000	310	45	45	—	—	30.5	6.7	118

Composition of Nickel Alloy 59 tubing and pipe

Grade	59
UNS Designation	N06059
Nickel (Ni)	Bal.
Chromium (Cr)	22.0–24.0
Iron (Fe)	1.50
Molybdenum (Mo)	15.0–16.5
Titanium (Ti) Max.	—
Aluminum (Al) Max.	0.1–0.4
Cobalt (Co) Max.	0.3
Tungsten (W)	—
Vanadium (V) Max.	—
Copper (Cu) Max.	0.50
Manganese (Mn) Max.	0.5
Niobium (Nb) plus Tantalum	—
Carbon (C) Max.	0.010
Nitrogen (N) Max.	—

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

Silicon (Si) Max.	0.010
Sulphur (S) Max.	0.010
Phosphorous (P) Max.	0.015
Other Elements	—