

MECHANICAL PROPERTIES OF NICKEL
(Minimum Properties At Room Temperature)

Grade	Condition	Tensile Strength KSI	Yield Strength (0.2% Offset) KSI	% Elongation in 2"
20	HR Annealed Plate	80.0	35.0	30
200	HR Bar	60.0	15.0	35
	CD Bar	75.0-80.0	50.0-60.0	10-15
	CR Annealed Sheet	55.0	15.0	40
	HR Annealed Plate	55.0	15.0	40
254SMO	CD Bar	94.0	44.0	35
	CR Annealed Sheet	94.0	44.0	35
	HR Annealed Plate	94.0	44.0	35
C276	HR Annealed Bar	100.0	41.0	40
	HR Annealed Plate	100.0	41.0	40
330	HR Annealed Bar	70.0	30.0	30
	CR Annealed Sheet	70.0	30.0	30
	HR Annealed Plate	70.0	30.0	30
400	HR Bar	70.0-80.0	25.0-40.0	30-35
	CD Bar	110.0	85.0	8
	CD SR Bar	84.0-87.0	50.0-60.0	10-25
	CR Annealed Sheet	70.0	28.0	35
	HR Annealed Plate	70.0-85.0	28.0	35
R405	CD Hexes	85.0-110.0	50.0	8-15
	CD SR Bar	85.0-110.0	50.0	8-15
K500	HR Bar	140.0	100.0	20
	HR Annealed Bar	130.0	85.0-90.0	20
	HR Forging Quality Bar	140.0	100.0	20
	HF Aged Bar	140.0	100.0	20
	CD Bar	135.0-145.0	95.0-110.0	15-20
	CD Annealed Bar	130.0	85.0-90.0	20
	CD Annealed Aged Bar	130.0	85.0-90.0	20
600	HR Annealed Bar	85.0	35.0	30
	CD Bar	105.0-120.0	80.0-90.0	7-12
	CR Annealed Sheet	80.0	35.0	30
	Annealed Plate	80.0	35.0	30
601	CR Annealed Sheet	80.0	30.0	30
	HR Annealed Sheet	80.0	30.0	30
625	HR Annealed Plate	120.0	60.0	30
800I1	HR Annealed Bar	65.0	25.0	30
	CR Annealed Sheet	65.0	25.0	30
801AT	HR Annealed Plate	65.0	25.0	30
82	HR Annealed Bar	85.0	35.0	30
	CR Annealed Sheet	85.0	35.0	30
	HR Annealed Plate	85.0	35.0	30

DENSITIES OF NICKEL

Alloy	Density lbs. per cu. in.	Conversion Factor	Alloy	Density lbs. per cu. in.	Conversion Factor
20	.321	1.006	718	.296	.928
201	.321	1.006	X-750	.298	.934
406	.319	1.000	751	.298	.934
R-405	.319	1.000	800	.290	.909
K-500	.306	.959	802	.283	.887
600	.304	.953	825	.294	.922
601	.291	.912	C902	.293	.918
625	.305	.956	20	.292	.900