

**MECHANICAL PROPERTIES OF NICKEL**  
(Minimum Properties At Room Temperature)

Grade	Condition	Tensile	Yield	%
		Strength	Strength	Elongation
		KSI	(0.2% Offset) KSI	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
254SM0	HR Annealed Plate	55.0	15.0	40
	CD Bar	94.0	44.0	35
	CR Annealed Sheet	94.0	44.0	35
C276	HR Annealed Plate	94.0	44.0	35
	HR Annealed Bar	100.0	41.0	40
330	HR Annealed Plate	100.0	41.0	40
	HR Annealed Bar	70.0	30.0	30
400	CR Annealed Sheet	70.0	30.0	30
	HR Annealed Plate	70.0	30.0	30
	HR Bar	70.0-80.0	25.0-40.0	30-35
R405	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
	CD Hexes	85.0-110.0	50.0	8-15
K500	CD SR Bar	85.0-110.0	50.0	8-15
	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
600	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
	HR Annealed Bar	85.0	35.0	30
601	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
625	CR Annealed Sheet	80.0	30.0	30
	HR Annealed Sheet	80.0	30.0	30
800I1	HR Annealed Plate	120.0	60.0	30
	HR Annealed Bar	65.0	25.0	30
801AT	CR Annealed Sheet	65.0	25.0	30
	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	Conversion	Alloy	Density	Conversion
	lbs. per cu. in.			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