

Nitronic 60 fasteners are known for their good resistance to wear, fretting, and galling even at extreme temperatures up to 1800°F. These bolts offer oxidation resistance that is similar to 309 stainless steel and superior carburization resistance compared to 309 and 316. Industry typically utilizes Nitronic 60 bolts as an economic alternative compared to high cost cobalt and nickel alloys when appropriate. Nitronic is typically used in chemical processing, bridges, infrastructure, and aerospace applications.

Properties

Ultimate Tensile Strength	95 ksi
Yield Strength at 0.2%	50 ksi
Elongation %	35
Usable Temperature Limit	1800°F / 982°C

Key Benefits

- Good wear, fretting and galling resistance
- Good high temperature properties as well as good low-temperature impact resistance

Chemistry & Specifications

Nitronic 60	Cr	Ni	Mn	Si	Mo	N	C	P	S	Fe
Min %	16.0	8.0	7.0	3.5	-	0.08	-	-	-	-
Max %	18.0	9.0	9.0	4.5	0.75	0.18	0.1	0.06	0.03	Bal

SPECIFICATIONS: ASTM A470, UNS S21800

Material Data

