

Alloy PE11

Easily workable and high strength at temperatures up to 550°C

NeoNickel are proud suppliers of Alloy PE11; a nickel-iron-chromium alloy strengthened by additions of titanium and aluminium. It's easily workable and provides high strength at temperatures upto 550°C.

PRODUCT FORMS

PRODUCT FORM	SIZE RANGE FROM	SIZE RANGE TO
Alloy PE11 round bar	Contact us for a quote	-
Alloy PE11 forgings	Contact us for a quote	-
Alloy PE11 flat bar	Contact us for a quote	-
Alloy PE11 sheet & plate	Contact us for a quote	-

Can't find the size you need? **Please contact us at onsales@neonickel.com**

APPLICATIONS

- Industrial furnace components
- Gas turbine hot sections

ABOUT ALLOY PE11

Alloy PE11 performs excellently even under the harshest of environments. The different elements in Alloy PE11 ensure it won't let you down. It offers outstanding performance at high temperatures and when under severe mechanical stress. As well as this it also provides good creep and oxidation resistance. Alloy PE11 can be readily formed by most conventional methods due to it's superb ductility. However, due to its strength it will require more powerful equipment to achieve forming to a desired effect. As a trusted suppliers of speciality metals to countries throughout Europe, we have to ensure that all our Nickel alloys offer the utmost strength, durability and reliability amongst the harshest of environments **To learn more about Alloy PE11 or to get a quote [contact us](#), or fill in our online quote form and we'll get right back to you!**

PROPERTIES

Density:	8.02 g/cm ³
Melting Range:	1280-1350°C
Hardness:	HRB
Specific Heat Capacity:	436 J/kg.°C
Electrical Resistivity:	μΩ.m
Curie Temperature:	°C

MECHANICAL & PHYSICAL PROPERTIES

MECHANICAL & PHYSICAL PROPERTIES	21.1°C	93.3°C	148.9°C	204.4°C	315.6°C	371.1°C	426.7°C	537.8°C	648.9°C	700°C	760°C	815°C	870°C	982°C	1093°C
Ultimate Tensile Strength /MPa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.2% Yield Strength /MPa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reduction of area %	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elongation %	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Charpy Impact V-notch /J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Creep 0.0001% per hr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000 hr Rupture Strength	-	-	-	-	-	-	-	-	340	250	140	-	-	-	-
Coefficient of Thermal Expansion / $\mu\text{m}/\text{m}^{\circ}\text{C}$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thermal Conductivity /kcal/(hr.m. $^{\circ}\text{C}$)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modulus of Elasticity / GPa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-