

**NS6130-12-000326**

## Quick Facts

Product	:	Nickel Nanowire
Stock No	:	NS6130-12-000326
CAS	:	7440-02-0
Molecular Formula	:	Ni
Form	:	Powder
Dia	:	50nm
Length	:	20µm

## Technical Specification

Molecular Weight	Density	Melting Point
58.69g/mol	8.902 g/cm <sup>3</sup>	1455 °C

Nickel Nanowires are elongated nanostructures with an average diameter of 200-300 nm and length of up to 200 µm. Nanowires (NW), can be of conducting materials such as (Al, Pt, Au), while semiconducting materials such as (Si, Ge, GaN) as well of insulating materials such as (SiO<sub>2</sub>, HfO<sub>2</sub> TiO<sub>2</sub>). Nanowires can be fabricated by using two approaches such as top-down approach and bottom-up approach but bottom-up is most preferably used because following parameters of Nanowires like length, radius, chemical composition and direction of growth can be precisely controlled

## Applications:

- Applications for nickel nanowires include optical devices, sensors, solar cells, biotechnology, and microelectronics.

# NICKEL

## Nanowire

**Purity**  
99.9%

# Ni

# Speciality CHEMICALS



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20ZICE4589C



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CERTIFIED COMPANY

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