

# LINQCELL NWM250



## Woven Nickel Wire Mesh

- 0.25 mm wire diameter
- Excellent chemical stability and anti-corrosion resistance
- High electrical conductivity

**LINQCELL NWM250** is a finely woven wire mesh made from high-purity nickel alloy, with a wire diameter of 0.25 mm and a nickel content of at least 99%. Its mesh size and uniformity complies with GB/T 17492. This mesh offers excellent electrical conductivity, chemical stability, corrosion resistance, and mechanical durability. Its versatile properties make **NWM250** suitable for different electrochemical devices, including water electrolyzers, fuel cells, and batteries, such as nickel–metal hydride (NiMH) and nickel–cadmium (NiCd) batteries.

In water electrolyzers and fuel cells, **LINQCELL NWM250** can be used both as a gas diffusion layer, facilitating mass and electron transfer within the device, and gas diffusion electrode when catalyst layers are directly applied onto it. Its suitability for alkaline systems has established it as a standard electrode material in alkaline water electrolyzers.

**LINQCELL NWM250** comes in different mesh counts (30, 40, 46, and 60), allowing precise tuning of diffusivity to meet various device design requirements. It is also available in two Ni grades: N4 (Ni201), and N6 (Ni200)

### Chemical Composition

Element	Expected Concentration [wt%]	Measured Concentration, Ni200 [wt%]
Nickel	>99	99.36
Iron	<0.4	0.21
Silicon	<0.35	0.15
Copper	<0.25	0.12
Sulfur	<0.01	0.001
Manganese	<0.35	0.16

### Mechanical Properties

Property	Value	Unit
Elongation at Break	27–28	%
Tensile Strength	418	MPa

*Reported values are measured using a 5.51-mm ( $\Phi$ ) grade N6 sample.*

### Storage and Handling

Handle LINQCELL NWM250 with care. Avoid direct light exposure and store in a dry, dark place whenever possible. Practice the first-in-first-out method when using.

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