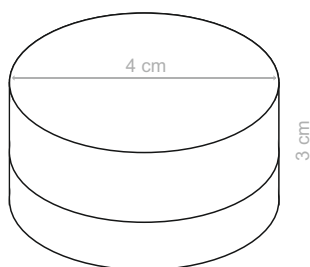


Nickel Tablets ARSENAL

Additives for a hot dip galvanizing bath



130 g / tablet.

Diameter 4 cm. Height 3 cm.

The tablet contains 100g of nickel.

Package:

9.75 kg / box,
75 tablets in box.

Always in stock.



Producer:
ARSENAL-UKRAINE



| Ni | Co | C | Cu | S | Fe | Al |
|--------|--------|--------|--------|--------|--------|--------|
| 99.82% | 0.080% | 0.005% | 0.005% | 0.025% | 0.001% | 0.003% |

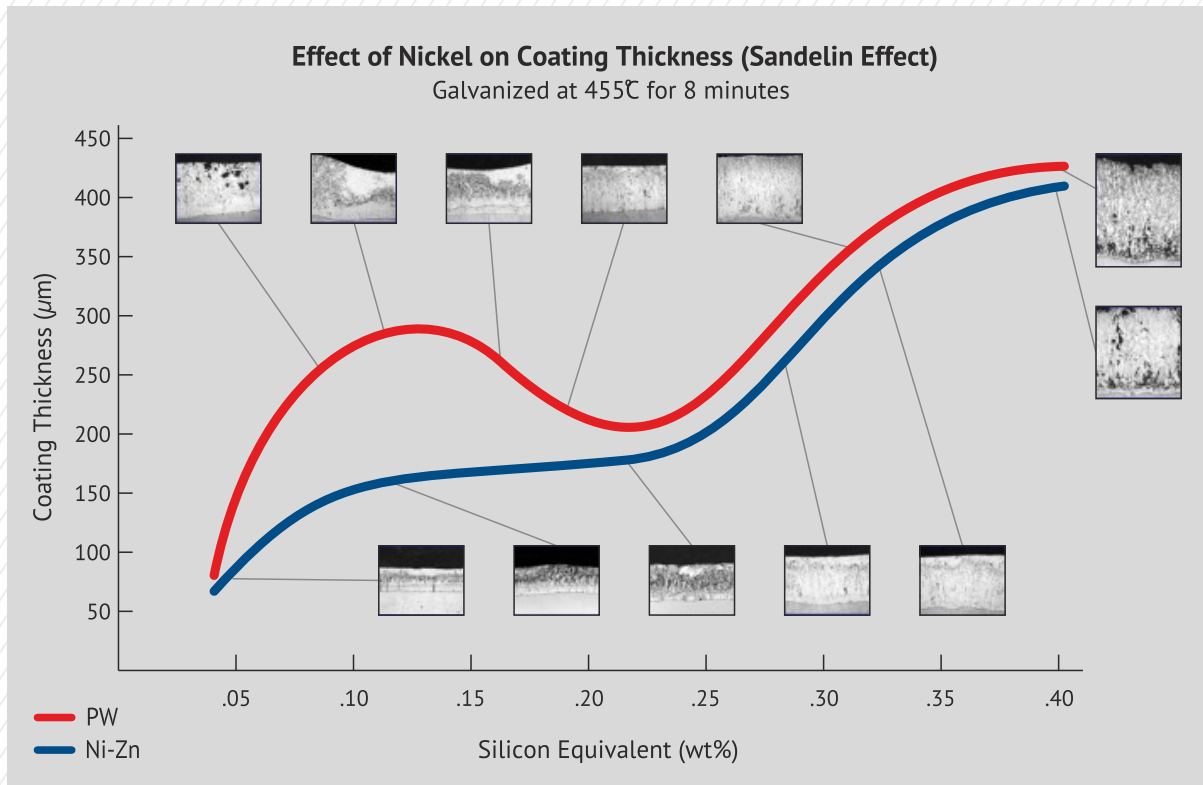
Why nickel?

- **Significantly!** reduces zinc consumption from 5% to 15% in weight.
- Prevents high coating thicknesses;
- Prevents dark grey coatings;
- Smoother and brighter surface finish. Aesthetical coating appearance.
- Better coating adhesion;

Why exactly a nickel tablet?

- Less nickel using up compared to zinc-nickel alloy ingot and nickel powder;
- Nickel automatically dissolves in zinc bath.
- Reduces nickel content in zinc ash and dross and increases the selling price of waste.
- No special expertise or tools required;

Look at the next page "Sandelin effect" »



It was discovered in 1960s that using small amounts of nickel (0.05% - 0.07%) in hot dip galvanizing baths could reduce the Sandelin effect.

Addition of nickel to the zinc bath affects the Sandelin effect and suppresses the increase in the thickness of the zinc coating.

The highest zinc coating is reached when the silicon in the steel is 0,04 to 0,12%, this range is called the "Sandelin Curve".

From this graph, it can easily be seen that in the Si killed steel, the example is 0,26% silicon, the coating thickness increases directly proportional with time, whereas in the unkilld steel, this increase is very slow. And even after 2 minutes dipping, the coating thickness is double in Si killed steel.

The introduction of nickel tablets has a positive effect on structure, properties and appearance of zinc coatings, guaranteed reduces the thickness of the coating without compromising its properties compared to traditional galvanizing technology.