

TITANIUM ZINC SHEETS

Metallurgy



CINKARNA

WHO ARE WE?

Cinkarna Celje, d.d., is a modern Slovenian metallurgical and chemical processing company with a diverse production and sales program. Our offer is expanded and adapted with keen awareness of our customers' needs and environmental issues. Our range includes titanium dioxide pigment, sheet manufacturing, graphics supplies, masterbatches, powder coatings, anti-corrosion coatings, tile adhesives, and products for chemical protection of plants.

TRADITION

Cinkarna is a company with formidable tradition as the beginnings of manufacturing date back to 1873. Tradition, years of experience, and visibility are the hallmarks of our production program.

QUALITY

Our policy of high quality and responsible attitude to our business partners, shareholders, employees, and the environment is consistently pursued throughout the production process. This is witnessed by our certificates: ISO 9001, ISO 14001, and BS OHSAS 18001. Development of products and choice of technology is aimed at production of quality products.

MARKET ORIENTATION

Satisfied customers are the fundamental goal of Cinkarna's quality management policy. We are a market-oriented company constantly striving for improvement, development, flexibility, and reliability. We have a keen feel for the needs of the market and we are happy to help our customers find the optimum solutions for them.

CARE FOR THE ENVIRONMENT

We understand the notion of sustainable development as a responsibility to the environment and the society, which permeates Cinkarna's vision, mission, and development plan. We use maximum care and employ state-of-the-art technology to preserve the nature for the generations of tomorrow while meeting today's needs. Our key goals are to reduce power consumption and emissions into the environment.

Metallurgy

Titanium zinc sheets
Zinc wire
Zinc alloys - Zamak
Zinc anodes

Cinkarna boasts hundred years of tradition in zinc processing and sheet manufacturing. With development, conventional zinc sheets were replaced by new, titanium zinc sheets manufactured in a modern procedure of strip rolling that endows the metal with excellent anti-corrosion and forming properties and make it an indispensable material in the construction industry as it offers construction tinsmiths a plethora of options when crafting and designing roofs and façades.





We manufacture

Packaging plates 2000 x 1000 mm or made to specifications, coils 50 - 1500 kg
sheets width from 100 to 1100 mm,
laminated wrapping paper, wooden pallet

Titanium zinc sheets

Bear the certificates of quality ISO 9001:2000, ISO 14001, BS OHSAS 18001, and KOMO. Quality fully complies with the European norms and standards – EN 988. It is made in plates, strips, and coils of various thickness grades. It is soldered with tin. It is used for roofs, gutters and pipes, wind borders and window shelves, wall and façade cladding, ornaments etc.

Purity of the zinc used: 99.995%

Amount of alloyed copper: 0.08 – 1.00%

Amount of alloyed titanium: 0.06 – 0.20%

Amount of alloyed aluminium: max. 0.015%

Yield point: 100 N/MPa

Tensile strength: 150 N/MPa

Stretch (elongation): min. 50%

HV hardness min. 40

Thickness tolerance: + 0.03 mm

Width tolerance: + 2/-0 mm

Zinc sheet for deep drawing

Zinc sheet for deep drawing is intended for all types of connections and attachments for gutters and pipes, such as elbows and drop outlets etc. Pure zinc according to standard EN 1179 – classification Z1 is used for the manufacturing of zinc sheet for deep drawing.

Purity of the zinc used: 99.995%

Amount of alloyed copper: 0.15 – 0.20 %

Amount of alloyed titanium: max. 0.03 %

Amount of alloyed aluminium: max. 0.015%

Yield point: 70 – 110 N/MPa

Tensile strength: 120 – 150 N/MPa

Stretch (elongation): min. 50%

HV hardness min. 35

Thickness tolerance: + 0,03 mm

Width tolerance: + 2/-0 mm

Soft zinc sheets

Soft zinc sheets are intended predominantly for inner lining of containers in which total resistance to atmospheric effects is required. Pure zinc according to standard EN 1179 – classification Z1 is used for the manufacturing of zinc sheet for deep drawing.

Purity of the zinc used: 99.995%

Amount of alloyed copper: max. 0.02 %

Amount of alloyed titanium: max. 0.02 %

Amount of alloyed aluminium: max. 0.01 %

Yield point: 70 – 110 N/MPa

Tensile strength: 110 – 150 N/MPa

Stretch (elongation) min. 40 %

HV hardness min. 30

Thickness tolerance: + 0.03 mm

Width tolerance + 2/-0 mm



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