About EverZinc

EverZinc, an OpenGate Capital portfolio company, is committed to creating products that matter. The company is a global provider of specialty zinc materials including fine zinc powders, zinc oxides, battery zinc powders and Zano®, an ultrafine zinc oxide. EverZinc products are used in a wide variety of applications, including corrosion inhibiting paints, performance tires, pharmaceuticals, ceramics, glass, sunscreen, alkaline batteries, and other products.

With manufacturing operations located in Belgium, Canada, China, Malaysia, the Netherlands and Norway, EverZinc processes more than 195,000 tons of materials of which 40% are recycled and refined to serve its growing global customer base.

BELGIUM, Angleur
80.000 t/year
ISO 9001-14001
OSHAS 18001

NORWAY, Larvik
15.000 t/year
ISO 9001-14001
OSHAS 18001

CHINA, Changsha
22.500 t/year
ISO 9001-14001

MALAYSIA, Pasir Gudang
15.000 t/year
ISO 9001-14001

We have solutions for any of your applications

GRADE	D50 Fisher	APPLICATIONS: PAINTS	MINES	PLATING	CHEMICALS	ELECTROLYSIS	PROD. UNITS	REMARKS
ATOMIZATION								
4P/16	3.4-3.9 µ	✓					Belgium	Low lead content powder complying ASTM type II or Type III
4P/32	3.9-4.9 µ	✓		✓			Belgium	Low lead content powder complying ASTM type II or Type III
4P/64	4.9-6.4 µ	✓	✓	✓			Belgium	Low lead content powder complying ASTM type II or Type III
4P/645	7.5-11 µ	✓					Belgium	Low lead content powder complying ASTM type II or Type III
STANDARD 7	6-9 µ	✓					Belgium	Low lead content powder complying ASTM type II or Type III
GMQ64	4.9-6.4 µ		✓				Belgium	Special grade for mining applications
EE/F	8-14 µ				✓	✓	Belgium	High zinc metal content (>97,5%)
EE/RS	17-35 µ				✓	✓	Belgium	High zinc metal content (>98%)
EE/C	25-45 µ				✓	✓	Belgium	High zinc metal content (>98%)
ZP90	90 µ				✓		Belgium	High zinc metal content (>98%)
DISTILLATION								
LARVIK SUPER EXTRA	2.5-4.0 µ	✓					Norway Malaysia	EP grade (Pb<0,01%) complying ASTM type II available
LARVIK SUPER FINE	3.7-4.5 µ	✓					Norway Malaysia	EP grade (Pb<0,01%) complying ASTM type II available
LARVIK STANDARD 5	4.5-6.0 µ	✓					Norway Malaysia	EP grade (Pb<0,01%) complying ASTM type II available
LARVIK STANDARD 7	6.0-9.0 µ	✓		✓			Norway Malaysia	EP grade (Pb<0,01%) complying ASTM type II available
FH 1000	2.0-3.5 µ		✓				China	EP grade (Pb<0,01%) complying ASTM type II available
FH 800	2.5-4.5 µ	✓					China	EP grade (Pb<0,01%) complying ASTM type II available
FH 500	3.2-5.0 µ	✓					China	EP grade (Pb<0,01%) complying ASTM type II available
FH 400	5.0-6.5 µ	✓					China	EP grade (Pb<0,01%) complying ASTM type II available
FH 325	6.0-9.0 µ	✓	✓	✓			China	EP grade (Pb<0,01%) complying ASTM type II available

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EverZinc
The Global Zinc Expert

Fine Zinc Powders

CREATING PRODUCTS THAT MATTER

FZP

The **largest** producer of the **widest** range of FZP

- 4 plants: Angleur (B), Larvik (No), Changsha (Ch) and Johor Bahru (Mal)
- 100.000 T of FZP of which 40% produced from recycled secondary zinc
- More than 20 different grades serving various industries
- 3 different production technologies

PRIMARY SHG	MELTING, ATOMIZATION, SELECTION	FZP AND ZAMP	ANGLEUR
PRIMARY HG & SHG	MELTING, VAPORIZATION, SELECTION	FZP	FUHONG
SECONDARY ZINC MATERIALS		FZP AND ZNO	LARVIK

Atomization
SPHEROIDAL

LARGE RANGE OF FZP

2 particle shapes : spherical and spheroidal

Super Extra, 4P16 4P32, Standard 7, EEF, ZP90, EERS ...

Blends and Alloys ZAMP Zn-Bi and Zn-Al-(Mg)

High metal content up to > 98%

High purity materials that meet the most stringent norms (ASTM Type II and type III)

Distillation
SPHERICAL

COATING INDUSTRY

PAINT
Marine
Protective coating
Container paint
Automotive paint

FLAKES
Automotive industry
Nuts and bolts

MECHANICAL PLATING AND SHERADIZING
Nuts and bolts
Complex parts

CHEMICAL INDUSTRY

PURIFICATION OF ZINC SOLUTIONS

SODIUM HYDROSULFITE

ORGANO CHEMISTRY PHARMACEUTICAL AND BIOSCIENCES

RECOVERY OF NOBLE METALS

GREASE AND LUBRICANTS

Chemicals

Fine zinc powder is widely used in various organic reactions for Life Science applications (fine zinc powder acts as the reagent for Synthesis of Organozinc compounds), for the recovery of precious (gold & silver) and Platinum group metals (Merrill Crowe Process) or in the purification process of leach solutions for zinc metal production.

In parallel, zinc powder plays a catalyst role in the production of sodium hydrosulfite, which is mainly used in three sectors:

- **Paper industry:** bleaching of mechanical pulp, deinked pulp and kaolin clay
- **Textiles:** reducing vat dyes (indigo), decolourizing dyes, bleaching fibres, yarn and fabrics
- **Specialist chemicals:** powerful reducing agent used in the chemical and pharmaceutical industries, metals and antioxidants.

Atomization

Atomized powders have a long history of use, and a high efficiency and selectivity in organic reactions due to their:

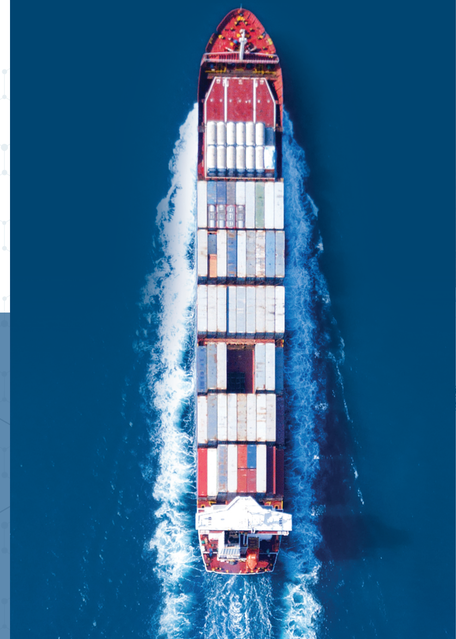
- Irregular shape, leading to a high specific surface area (contact area)
- High zinc metal content (leading to much thinner zinc oxide layer) -> min 97.5%
- High purity (produced out of SHG) -> type III

Paints

Zinc-rich paints contains 85-92% of zinc metal pigments that function as the active anticorrosion component. This metallic zinc film acts as a physical barrier as well as a cathodic protection for the underlying steel.

For decades, zinc-rich paints have been considered to be the most effective anti-corrosion paint system in use. The thickness of these zinc primers can vary between 6 and 125 microns: the higher the thickness and the higher the zinc content, the longer they may provide anti-corrosion protection to the steel.

The main application area of zinc powder paints lies in anti-corrosion protection for industrial construction (steel infrastructure, pipelines, bridges, windmills, offshore rigs, petrochemical and power industries....) and anti-corrosion protection for marine applications (sea containers, construction and maintenance of ships and marine equipment).



NEW PRODUCTS

ZAMP Al-Mg

PRODUCT
Our unique atomization process enables EverZinc to produce alloyed powder in various proportions (e.g. 9% Al and 2.6% Mg). We can also adapt to different requests regarding the particle size distribution, depending on customer needs.

APPLICATION
ZAMP Al-Mg is already used in automotive industry and thus complies with stringent specifications from different well-known car manufacturers. This zinc alloy powder is particularly suited for application requiring superior corrosion resistance.

ZAMP Bi

PRODUCT
Another alloy developed by EverZinc consists of zinc with bismuth (level 0,4%). This exclusive powder considerably improves corrosion protection and rust creep protection without affecting zinc rich paint properties. Outdoor exposure and accelerated corrosion tests showed 2-3 times better rust creep protection compared to regular zinc powder.

APPLICATION
Such high performances can be required in very harsh environments on the sea shore, windmills, boat decks, etc. where the metallic parts are exposed to salty and very agressive environments.

OG

PRODUCT
In response to increasing market demand for water-based products, EverZinc has developed special zinc powders. The product is named OG for Zero Gassing: no hydrogen release once mixed with water. EverZinc has established a formulation for a one-component water-based zinc-rich paint.

APPLICATION
Our powder is particularly suited for applications where Volatile Organic Compound (VOC) are prohibited or must be minimized. For customers with focus on sustainable rich water-based paint products.