



micro**ZINQ**®
Less is more

- 80% Zink

Energy and Resource Efficiency Through Innovation

Innovations must be sustainable, and sustainability is inconceivable without innovation—microZINQ is a perfect example of this. This high-performance coating saves up to 80% zinc compared to conventional hot-dip galvanizing while providing equivalent corrosion protection using a thin-film process in accordance with DIN 50997. At the same time, the process saves energy—further increasing energy and resource efficiency. microZINQ is characterized by special technical properties for protecting components and, due to the surface's higher passivity, is particularly suitable for environments with increased microclimatic demands.

Features

➤ Corrosion Protection

Long-lasting protection provided by thin-film galvanizing in accordance with DIN 50997/DIN EN ISO 14713 (as well as AbZ (Z-30.11-60)) against extreme corrosive and mechanical stresses

➤ Fire protection

Thanks to its low emissivity, microZINQ improves the thermal behavior

➤ of steel in the event of a fire—scientifically confirmed by the Technical University of Munich and approved by building authorities (AbZ Z-30.11-60)

➤ Technical characteristics

exceptionally high, uniform gloss level; consistent coating thicknesses regardless of the reactivity of the steel substrate; also suitable for high-strength steel substrates; cold-formable coating, compatible with forming and joining processes following galvanizing

➤ Resource Effectiveness

environmentally friendly and innovative surfaces and processes are

Cradle to Cradle Certified® and documented with circular product data sheets (PCDS) in accordance with ISO 59040

➤ Material Health

Use of materials and raw materials that meet circular economy standards and are free of microplastics, PFAS, and PFOS—safe for people and the environment. Cradle to Cradle Certified® based on Material Health Standard

➤ Quality

Manufactured in accordance with a certified integrated ZMS (ZINQ Management System) compliant with ISO 9001, ISO 14001, ISO 50001, and ISO 45001 in state-of-the-art facilities with continuous process monitoring

➤ ZINQ 360 - Additional Services from A to ZINQ

From design consulting to warehousing and inventory management, through to comprehensive transportation, contract, and process logistics; handling contract manufacturing and assembly; and digital marking, automation, post-processing, and finishing systems

Excellent efficiency

microZINQ is the first piece-by-piece galvanizing process to be awarded the German Raw Materials Efficiency Prize by the Federal Ministry for Economic Affairs and Energy. In addition to the functionality and aesthetics of galvanized surfaces, the German Raw Materials Efficiency Prize focuses primarily on the potential for saving valuable resources. Thanks to an innovative zinc-aluminum alloy consisting of 95% zinc and 5% aluminum, microZINQ saves up to 80% zinc. This innovation was also recognized with the NRW Efficiency Award.

Prizes/Awards



EFFIZIENZPREIS NRW

microZINQ is accredited

Furthermore, following extensive testing by the German Institute for Building Technology (DIBt), microZINQ has received General Building Approval (AbZ). This means that prefabricated steel components galvanized with microZINQ are also recognized as an official building product. Furthermore, the performance of microZINQ in the event of a fire has been demonstrated in extensive test series conducted by the Technical University of Munich. These findings are now also part of the General Building Approval (AbZ Z-30.11-60)—meaning that steel components protected with microZINQ can also be used in fire-safety-related applications. In 2020, the DIN 50997 standard for zinc-aluminum coatings was published. This standard for piece galvanizing describes the requirements for the properties and testing of zinc-aluminum coatings applied to fabricated iron or steel parts via thin-film galvanizing. microZINQ also falls within the scope of DIN 50997.

Certifications



ZINQ[®]

Nordring 4
45894 Gelsenkirchen
info@zinq.com
Telefon: +49 209 319270-0

zinq.com