



STAPA® STAPA® 15 ZnMg26 – A unique zinc magnesium alloy for the protection of multi-metal substrates

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STAPA® 15 ZnMg26 is based on a patented proprietary alloy. The product is flake-shaped and provided as paste. It protects multi-metal constructions such as combinations of steel and aluminum alloys of the 3000 and 5000 series in one go.

The alloyed metal components zinc and magnesium offer an electrochemical potential close to pure magnesium, thus providing the frame conditions for sacrificial corrosion protection on selected aluminum alloy substrates. Pure zinc is not appropriate for the corrosion protection of such materials due to the small difference in the electrochemical potential.

For an even longer corrosion protection, STAPA® 15 ZnMg26 can easily be combined with our STANDART®, STAPA® and ProFLAKE® zinc products.

The strength of **STAPA® 15 ZnMg26** lies in the ability to protect multi-metal structures of steel and aluminum, e.g. on trailers.

The key properties are

- Flake shape (additional barrier effect by elongating diffusion pathways)
- High corrosion protection on aluminum* and multi-metal substrates
- Sacrificial anode effect of ZnMg26 results in excellent initial anti corrosion properties
- Electrochemical potential close to magnesium (less noble electrochemical potential than steel or aluminum alloys of the 3000 or 5000 series)
- Provided as paste – dust-free and easier to handle than dangerous pyrophoric magnesium pigments
- Low density compared to pure zinc: Zn: 7.1 g/cm³ – ZnMg26: 3.9 g/cm³

STAPA® Product	Alloy Composition %	Non volatile content (pigment) Acc. To DIN 55923 %	Solvent	Screen analysis/ wet sieving with organic solvents as rinsing liquid Acc. To DIN 53196 < 45 µm min. %	Particle size distribution determined with Helos D 50 approx. (µm)
15 ZnMg26	Zn: 74, Mg: 26	85	mineral spirit	99	15

* Note: ZnMg26 is not suitable on aluminum substrates for aerospace application (e.g. AA 2024 & 7050)

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