



Mechanical zinc plating

growermetal.com



Description

The mechanical zinc plating is an **anticorrosive and durable coating free of hydrogen embrittlement risks**, obtained by a low energy consumption process.



Growermetal uses exclusively original **MacDermid®** chemicals, which have been studied on purpose to get a **high-quality and high-performance coating**.

Thanks to its integrated process and production capacity Growermetal has made this surface treatment available for the company's products as well as for third parties.

Why choosing the mechanical zinc plating?

There are several considerations in the choice of a correct surface treatment, the **main advantages of Growermetal's mechanical zinc plating are listed below:**

- Absence of embrittlement risks of the pieces due to the presence of hydrogen;
- Absence of sticking pieces after plating;
- Excellent adhesion and controlled uniformity of coating thickness;
- No risks of modification of the hardness during the process;
- Excellent corrosion protection;
- Excellent electrical conductivity;
- Environmentally friendly process;
- Several post-plate treatments (passivations and sealers);
- Excellent overall appearance.

Zinklad 250M

The Growermetal's mechanical zinc plating plant has been certified by MacDermid® and has been included among the main homologated platers for the Zinklad 250M surface treatment.



ZINC PLATING TREATMENTS			
TREATMENT	TREATMENT	SIGNIFICANT CORROSION (MIN. HOURS)	
		WHITE RUST	RED RUST
Mechanical zinc plating from 6 to 150 my	Pure zinc deposit, without any further passivation/sealer	-	It varies from 120 to 384 hours*
Zinklad XL Mechanical zinc plating from 6 to 150 my + white passivation	Pure zinc deposit + white passivation Cr 6 free	72 hours	It varies from 120 to 384 hours*
Zinklad XL Mechanical zinc plating from 6 to 150 my + yellow passivation	Pure zinc deposit + yellow passivation Cr 6 free	72 hours	It varies from 120 to 384 hours*
Zinklad XL Mechanical zinc plating from 6 to 150 my + white passivation + sealer	Pure zinc deposit + white passivation Cr 6 free + sealer	72 hours	It varies from 120 to 384 hours*
Zinklad 250 M – 8 my	Pure zinc deposit + passivation Cr 6 free + sealer + friction controller	144 hours	384 hours

*depending on the thickness of the zinc deposit

The surface treatments listed above are carried out according to the norm EN ISO 12683.
The thickness of the zinc deposit varies from 6 to 60 microns, according to customers' request.



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