Zintek® Top LV

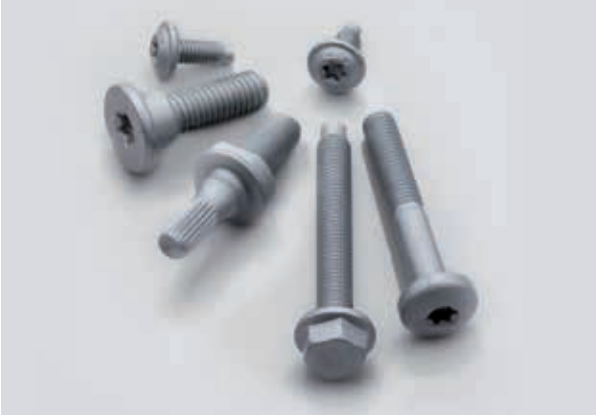
Zinc flake technology from Atotech

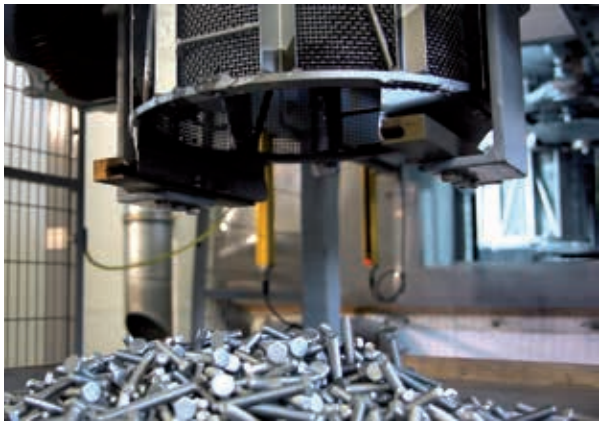
General metal finishing | Zinc flake technology | www.atotech.com

Thin layer top coat preventing heat-loosening

Zinc flake coating systems

Zinc flake technology provides a high grade of corrosion protection using combinations of specialized base and top coats. Largely embraced by the fastener industry, such coatings find widespread use within a variety of applications: ranging from fasteners, hose clamps, clips or brake components for the automotive industry, special fasteners in the wind power, construction and other industries. Atotech offers a comprehensive range of processes including silver and black finishes for different application areas. The coatings are completely Cr(VI)-free and fulfill global automotive performance requirements.





Corrosion resistance

Base coat	Top coat	Durability
8 µm	1 µm	720 h*
10 µm	1 µm	>1,300 h*

Corrosion resistance acc. to *ISO 9227 and layer thickness may vary depending on part geometry, substrate and application method.

Features and benefits

- Inorganic silicate based top coat
- Increasing significantly corrosion protection
- Very thin layer thickness (~1.5 µm)
- Very good adhesion
- Controlled CoF properties
- Fulfilling Volkswagen's heat loosening and multiple mounting requirements
- Attractive transparent appearance
- Integrated UV-tracer
- No hydrogen embrittlement
- Excellent results on zinc flake base coats as well as on electroplated zinc/zinc alloys

ATOTECH

Zintek® Top LV
Zinc flake technology from Atotech

Application

- Dip-spin

Combinations

- Combinable with Atotech's silver Zintek® base coats as well as with electroplated and passivated finishes

Parts (application)

- Fasteners
- Screws
- Bolts
- Nuts

Application parameters

- Make up: Deionized water
- Curing time: 15 – 40 min
- Curing temperature: 100 – 140 °C
- Recommended 30 min at 120 °C object temperature

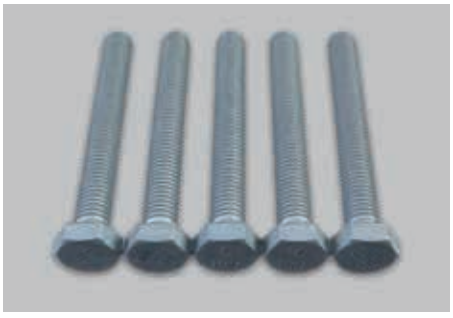
Coefficient of friction

- 0.09 – 0.15 (μ_{tot}) acc. to VDA standard

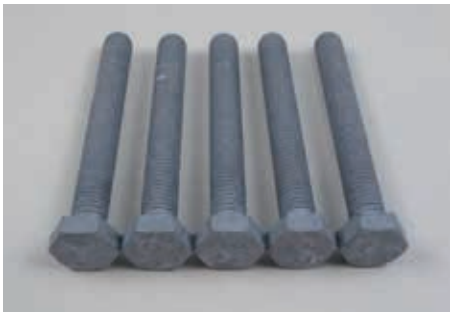
Technical data

- Delivery density: 1.05 – 1.10 g/cm³ (at 20 °C)
- Stability in sealed drums: 18 months
- Coverage rate: 110 m²/kg (based on 1.5 µm dry film)

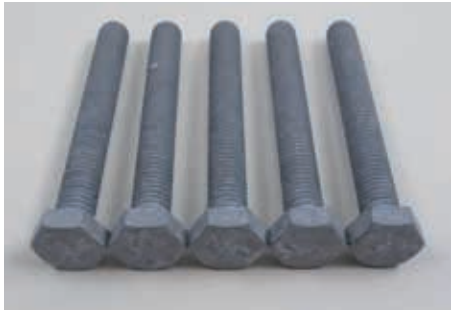
Corrosion performance



Start



1,000 h*



1,400 h*

Atotech Group
Untergasse 47
65468 Trebur-Geinsheim
+49 6147 50130
info@atotech.com