

Brake caliper plating

Highest performance at lowest cost



General Metal Finishing

Corrosion resistant coatings

atotech.com

Acid zinc for brake calipers – the economic plating solution



MKS' Atotech Zylite® acid zinc electrolytes are globally recognized in the brake caliper industry. The tried and trusted ammonia and boric acid-free product range is compliant with all regulations worldwide. In combination with MKS' Atotech environmentally sound passivates and sealers the process fulfills all automotive requirements, such as up to 600 h to red corrosion (production proven) according to DIN EN ISO 9227/ASTM B-117 and all major cyclic corrosion tests.

Chemical consumption and wastewater can be reduced significantly with MKS' Atotech unique auxiliary equipment, enabling customers to improve quality while reducing running costs.



Corrosion performance

First white corrosion	First red corrosion
120 h	600 h

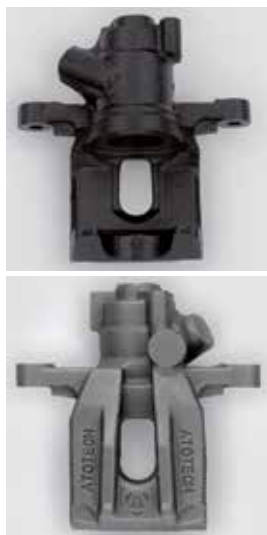
Corrosion performance according to DIN EN ISO 9227/ASTM B-117



Process overview

Electrolyte	Passivate	Sealer	Approvals
Zylite® family	EcoTri® HC 2 High performance thick film passivate	Sealer 300 W family <ul style="list-style-type: none"> Inorganic Reactive Brake fluid compatible Reduced residue formation 	Standard in the industry Approved by <ul style="list-style-type: none"> Akebono CBI Continental Hyundai-Mobis Mando Nissin ZF TRW
	EcoTri® NC Co-free passivate		
	EcoTri® NF F-free thick film passivate		
	EcoTri® NoCo 2.0 Co and F-free thick film passivate		
		Corrosil® Plus 401 <ul style="list-style-type: none"> Inorganic Brake fluid compatible 	Approved by various Tier 1s

Acid zinc nickel for brake calipers – the high performance plating solution



Zinni® 220 is the newest innovation in MKS' Atotech acid zinc nickel product range. It was especially designed for brake caliper plating. Unmatched throwing power ensures high plating thickness in extreme low current density areas resulting in higher corrosion resistance compared to conventional acid zinc nickel electrolytes. This advantage can also be transformed into productivity benefits leading to higher capacity and better cost competitiveness.

The ammonia and boric acid-free electrolyte complies with all regulations worldwide. In combination with MKS' Atotech environmentally sound passivates and sealers for brake application the process fulfills all automotive requirements, such as up to 1,500 h to red corrosion according to DIN EN ISO 9227/ASTM B-117 and all major cyclic corrosion tests.

Chemical consumption and wastewater can be reduced significantly with MKS' Atotech unique auxiliary equipment. This results in utmost quality performance at lowest running costs possible.

Corrosion performance

First white corrosion	First red corrosion
240 h	1,500 h

Corrosion performance according to DIN EN ISO 9227/ASTM B-117

Process overview

Electrolyte	Passivate	Sealer	Approvals
Zinni® 220	EcoTri® HC 2 High performance thick film passivate EcoTri® NC Co-free passivate Tridur® DB (optionally Co-free) F-free passivate	Sealer 300 W family <ul style="list-style-type: none"> • Inorganic • Reactive • Brake fluid compatible • Reduced residue formation 	Standard in the industry Approved by <ul style="list-style-type: none"> • Akebono • CBI • Continental • Hyundai-Mobis • Mando • Nissin • ZF TRW

