

EcoTri[®] NF

Fluoride-free passivate



General Metal Finishing

Corrosion resistant coatings

atotech.com



Fluoride-free passivate for acid and alkaline zinc plating processes



High protection with many design options

EcoTri[®] NF is MKS' Atotech new fluoride-free, iridescent thickfilm passivate for acid and alkaline zinc applications. Because EcoTri[®] NF operates at a low temperature (between 25 - 40 °C), the zinc dissolution rate is reduced considerably during passivation. This results in lower levels of metal discharge in the wastewater. Another benefit is that the make-up solution requires less chemistry. By helping to reduce both internal costs and external environmental impact, this product is representative of MKS' Atotech role in the industry's future. EcoTri[®] NF also provides customers with a wide range of color options, combining protection with an attractive appearance.

An iridescent thickfilm passivate for acid and alkaline zinc applications



Figure 1:
Tricotect® regeneration system
Figure 2-3:
Fasteners coated with Zylite®
HT Plus / EcoTri® NF

Increased efficiency

EcoTri® NF is suitable for use with Atotech Tricotect® regeneration system. Tricotect® allows for the continuous and selective removal of iron and zinc contamination from passivate solutions, preventing hazing and discoloration of passivate films and ensuring a consistent high plating quality.

Features and benefits

- Fluoride-free
- Operates at low temperature
- Low zinc dissolution rate
- Lower level of metal discharge in the wastewater
- Reduced make-up concentration
- Wide range of color options available
- Suitable for use with Tricotect®, MKS' Atotech regeneration system for the continuous selective removal of iron and zinc build-ups from passivates solutions

Working parameters

Temperature	35 °C (25 – 40 °C)
pH	acid and alkaline zinc: 2.0 (1.8 – 2.2)
Immersion time	45 seconds (20 – 60 seconds)
Transfer time	max. 20 seconds

