

Tridur[®] DB

High performance blue passivate



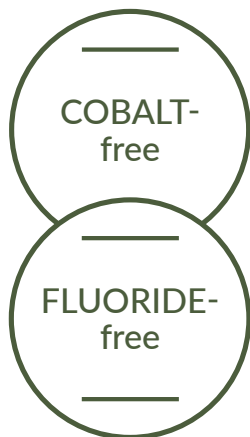
General metal finishing

Corrosion resistant coatings

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High performance blue passivate for zinc nickel applications



Joining the Tridur[®] family

Tridur[®] DB is Atotech's newest member of the Tridur[®] family. It is a fluoride-free, optionally cobalt-free, two-component deep blue passivate for alkaline and acid zinc nickel surfaces. Suitable for rack and barrel applications, Tridur[®] DB produces an even, attractive deep blue finish even on complex-shaped parts.

Tridur[®] DB has a wide working window for blue appearance and an outstanding corrosion performance, which makes it a perfect alternative to standard thickfilm passivates. Up to 1,000 hours against white corrosion are achievable without even applying a sealer. When used with a sealer it provides even higher corrosion resistance results while giving a stainless steel appearance on acidic zinc nickel electroplated surfaces.

High corrosion protection, extraordinary lifetime and a deep blue appearance



Figure 1-3:
Parts plated with Tridur® DB

Extraordinary lifetime

Another remarkable benefit of Tridur® DB is the extraordinary lifetime. Due to a high pH (4.0 – 4.5), the metal dissolution rate is reduced considerably during passivation. Optionally, a cobalt-free version of Tridur® DB with the same features in terms of corrosion protection and deep blue appearance is available.

Working parameters

Temperature	25 °C (20 – 35 °C)
pH	4.2 (4.0 – 4.5)
Immersion time	80 seconds (60 – 300 seconds) depending on bath age and required color

Features and benefits

- For alkaline and acid zinc nickel surfaces
- Outstanding corrosion protection
- Up to 1,000 hours against white corrosion without sealer
- Fluoride-free
- Extraordinary lifetime
- Homogeneous blue appearance
- Nice stainless steel look on acid zinc nickel with sealer
- Cobalt-free version is also available

