Tridur® DB
High performance blue passivate for zinc nickel surfaces

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Tridur® DB is Atotech's newest member of the Tridur® family. It is a fluoride-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.

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.

Fig. 1: Screws coated with acid ZnNi / Tridur$^®$ DB (top), alkaline ZnNi / Tridur$^®$ DB (right) and acid zinc ZnNi / Tridur$^®$ DB / Sealer (centre)

About Atotech
With annual sales of €885 million, Atotech is one of the world's leading manufacturers of processes and equipment for the printed circuit board, IC-substrate and semiconductor industries (Electronics) as well as the decorative and functional surface finishing industries (General Metal Finishing). Committed to sustainability, Atotech develops technologies that minimize waste and reduce environmental impact. Atotech, a division of the Total Group, is headquartered in Berlin, Germany and employs about 4,000 people in over 40 countries.