Borocoat®-
Diffusion surface treatment for nickel-based alloys

PROPERTIES
- High surface hardness > 2000HV0.025
- Coating thickness 10-60μm
- Extreme wear resistance in highly abrasive applications
- Extreme consistency when experiencing adhesive wear
- High thermal resistance up to 1000°C
- Distinct self-lubricating effect with high temperatures
- Consistent to hot corrosion

APPLICATIONS
- Turbocharger production
- Jet engine technology
- Turbine production
- Power plant technology
- Valve technology
- Oil & gas industry
  Onshore/Offshore/Subsea
- Chemical industry
- Polymer processing
- Aviation and space technology

FOR MORE INFORMATION AND Consulting
Tel: +49 2233 406-300 · Fax: +49 2233 406-333 · office@bortec.de · www.bortec.de
BorTec GmbH & Co. KG · Goldenbergstrasse 2 · 50354 Huerth · Germany
Borocoat®-
Diffusion surface treatment
for nickel-based alloys

YOUR BENEFIT

Reliable operation of security-relevant components, improvement in efficiency, higher cost effectiveness and extended value-added processes are achieved when using nickel-based alloys in connection with Borocoat®-Diffusion surface treatments. No other case-hardening diffusion process enables suchlike improvement of the mechanical properties as to the hardness and wear protection in connection with an excellent high temperature resistance. Corrosion-resistant Borocoat®-Diffusion surface treatments for nickel-based alloys. We can show you how to decisively extend the durability of your components.

MATERIALS

Nickel-based alloys such as Inconel®, Hastelloy®, Haynes®, Nimonic® etc.*

DID YOU KNOW...?

Borocoat®-Diffusion treatment is also applicable to unalloyed, low-alloyed and high-alloyed steels; also to tool-steels for cold and warm work, powder metallurgical steels, stainless steels and Stellite®.*

* Borocoat® is a trademark registered by BorTec GmbH & Co. KG & Co. KG. Hastelloy®, Inconel®, Stellite®, Haynes® are trademarks registered by different companies.