

KUDU Tough Coat

Corrosion- and abrasion-resistant rotor coating

APPLICATIONS

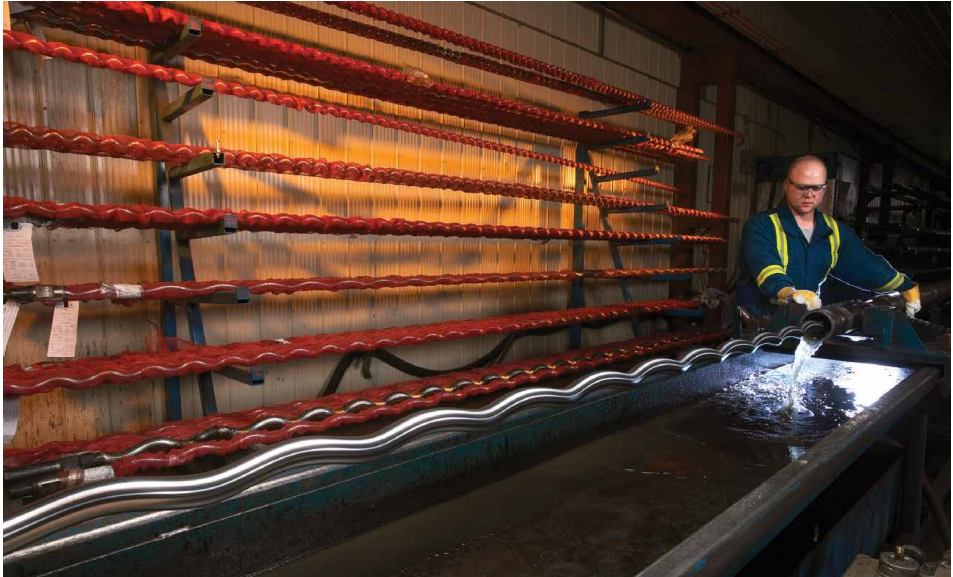
- Progressing cavity pump (PCP) rotors requiring improved resistance to corrosion and abrasion

BENEFITS

- Eliminates peeling and problems caused by peeling
- Prolongs pump run life in corrosive or abrasive well conditions
- Maintains PCP efficiency over time in corrosive environment compared to chrome
- Reduces operating costs
- Provides more environmentally friendly coating process than chroming

FEATURES

- Coating material fused with rotor-based material
- Nickel-based coating



Tough Coat rotor coating testing.

KUDU Tough Coat* corrosion- and abrasion-resistant rotor coating is an advanced spray metal coating applied to PCP rotors. As compared with chrome rotors, those with Tough Coat coating provide significantly improved resistance to corrosion and abrasion, and pump more fluid over an extensive period in highly corrosive environments. The result is longer rotor life, increased production efficiency, and lower operating expenses.

Corrosive environments

A rotor with Tough Coat coating running at 400 rpm in a highly corrosive, heavy oil application is capable of maintaining the pump at high efficiency throughout its run life. Pumps with rotors treated with Tough Coat coating do not show the significant weakening or wear typical of chrome rotors in similar applications.

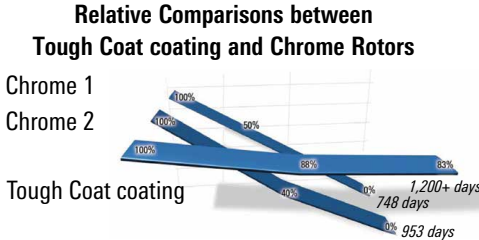
Noncorrosive environments

The Tough Coat coating also works well in environments without corrosive or abrasive characteristics. A pump with Tough Coat coating can produce at very high efficiency in a light oil well.

Proven performance

Extensive field analyses have shown significant rotor run life improvement in light, medium, and heavy oil applications.

The chart below shows three consecutive rotor runs in the same well at the same 195 rpm. The first two chrome rotors lasted 748 and 953 days, with pump efficiency dropping continuously. The pump with Tough Coat coating was operating at 83% efficiency after more than 1,200 days. In 95% of field tests, Tough Coat coating prolonged rotor life in adverse conditions and continually achieved high production rates.



Tough Coat coating improves run life and efficiency in a highly corrosive, medium-oil well.

*Mark of Schlumberger
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