New Class of Steel Increases Component Life
In Extreme Oil & Gas Environments

NanoSteel’s patented alloys belong to a new class of steel which features a nano-scale microstructure resulting in
• Improved mechanical and physical properties
• Superior performance over conventional materials

In oil & gas, NanoSteel has successfully introduced alloys for surface technologies and near net shape parts which feature higher strength-to-weight ratios and exceptional wear and corrosion resistance.

NanoSteel alloys support a wide range of applications throughout the oil & gas industry - from exploration and drilling to production, transmission and refining.

NanoSteel offers unique solutions to customer challenges through a joint product design, testing and validation process based on our extensive materials knowledge.

NANOSTEEL REDUCES MAINTENANCE COSTS AND INCREASES PRODUCTION OUTPUT

HARDBANDING
In China and the Americas, NanoSteel’s Guardian® CF hardbanding has demonstrated up to 300% lifetime improvement over competing casing-friendly materials

OVERLAY WEAR PLATE
NanoSteel wear plate has demonstrated a 400% improvement for resisting severe sliding abrasion over conventional 500 Brinell quench & temper steel plate

TUBULARS
NanoSteel thin wall, ultra-high strength casings deliver more usable space in deep high pressure wells

DRILLING COMPONENTS
Downhole tools operating in demanding conditions last longer due to exceptional wear performance

FLOW CONTROL
Near net shape parts and metal cladding for valves, pumps, pipes, elbows and tees resist erosion and corrosion, and last longer

Connect with NanoSteel
quote@NanoSteelco.com • Toll Free 1-877-293-6266 • www.NanoSteelco.com
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