THE AMERICAN DRILL COMPANY

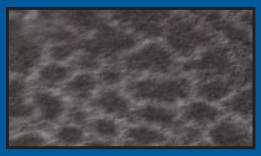
Rocky Mountain Blue™

nACo® Coating

Features & Benefits

- Extreme temperature resistance, maintaining structural integrity at temperatures up to 1200° C.
- Extreme Hardness
- RMT testing shows a 40% increase in tool life (coated vs uncoated) in dry drilling!
- Extremely low friction coefficient
- Better choice for drilling in steel and stainless steel.
- Increased feeds and speeds over TiAlN with equivalent or better tool life, decreasing the cost per hole.
- Tune setup to your application for improved drilling speed and/or life.
- Lower cost per hole. Pays for itself.
- This flagship coating is unmatched for its combination of performance characteristics.

What are Nanocomposites

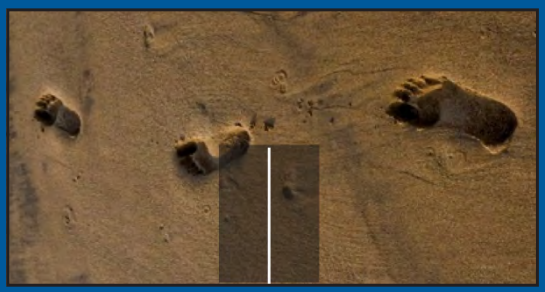


nACo is a trademarked term for Nanocomposites (NC).

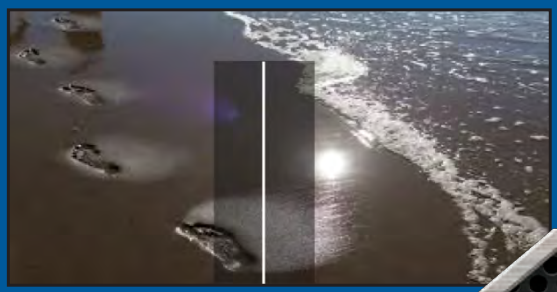
Nanocomposites (NC) consist of an adhesion and a core layer. The core layer consists of 2 phases: hard, nanocrystalline grains (e.g. TiN, TiAlN or AlCrN grains) are embedded in an amorphous SiN matrix, which prevents the grain from growing and creates the nanocomposite structure. nACo is an example.

Sand on a beach can serve to illustrate the increase in hardness achieved by the nanocomposite structure: normally, a person's foot will sink into dry sand. If the sand is wet, their foot will not sink in as far, because the space between the grains is filled with water. The combined surface has a higher resistance and is therefore harder.

Hardness



TiAlN



AlTi(Si)N

MADE IN USA

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RMT

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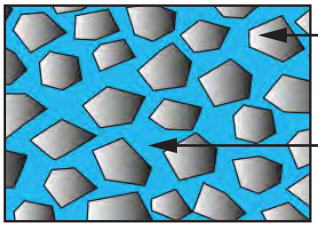
A Cut Above

The nACo finish is exclusive to Platit Coating Chambers. Platit Exclusive LARC (lateral rotating cathode) coating process results in smooth even coating deposition.

Typically reserved for Carbide this coating was thought to be overkill for HSS. Our testing however has shown significant performance gains with HSS and HSCO

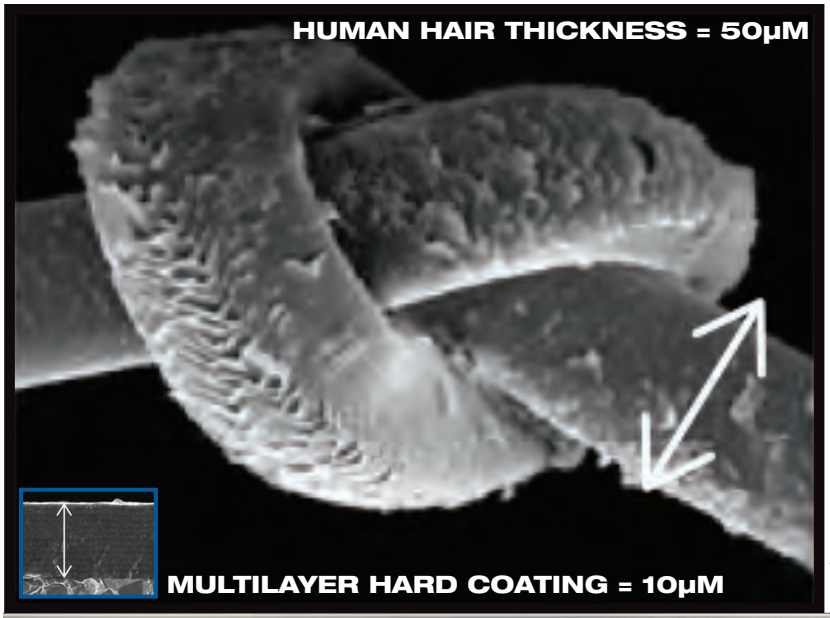
Triple Layer Coating

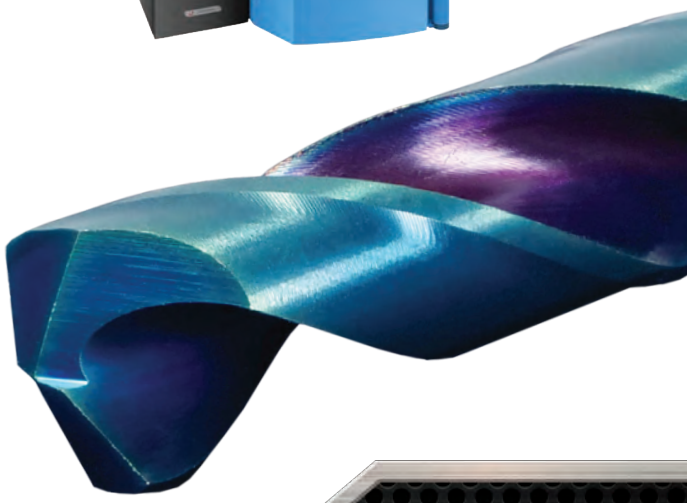
TiN - TiAlN - TiAlN/SiN(Silicone Nitride)



TiAlN
Hard and low friction
Long wear

SiN
Temperature impervious ceramic
Promotes nano structure





*No Smurfs were harmed in the production of this coating

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