

Get Your Edge With Hardcoatings

from Surface Solutions



Alpha™

Premium all-purpose coating. Provides superior hardness, lubricity and abrasion resistance compared to TiN. Typically lasts two to four (2 - 4X) longer than TiN.

Ideal for: Stamping, punching, forming and cutting tool applications.



TiAlN (titanium aluminum nitride)

Premium cutting tool coating. Provides the highest oxidation resistance. Two to four times the tool life over TiN. Use when you want to "push" your tools.

Ideal for: Cutting tool applications; applications that generate a lot of heat, ie. difficult to machine materials, hard materials, deep hole drilling, etc.



TiCN (titanium carbo-nitride)

Superior hardness and longer tool life (2 - 4X) compared to TiN coatings. Can be easily stripped from high-tolerance tools to make those tools semi-perishable.

Ideal for: Stamping, punching, forming, injection molding and cutting tools.

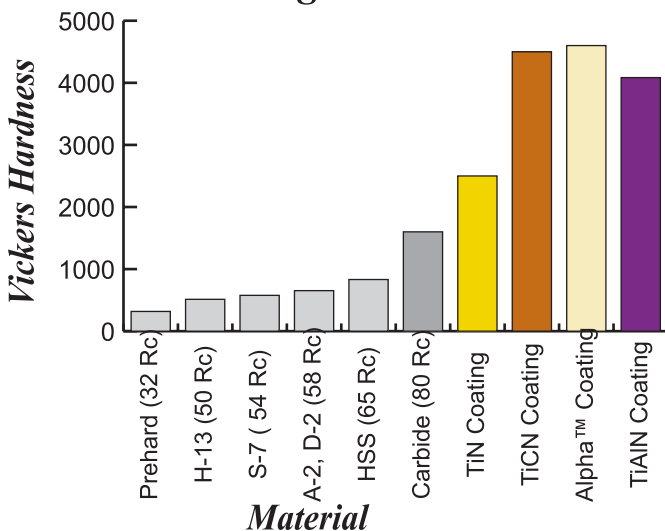


TiN (titanium nitride)

Good, all-purpose coating. Least expensive. Can also be easily stripped from expensive, high-tolerance tools to make those tools semi-perishable.

Ideal for: Injection molding, stamping, punching, forming and cutting tool applications. Also used in medical and many other industrial applications.

Coating Hardness Chart



*This chart shows the hardnesses of the four coatings we offer. All four coatings are significantly harder than carbide, while three coatings (TiCN, Alpha™, and TiAlN) are nearly **three times as hard as carbide**.*

Best Value

*We believe we offer the best value around. Besides our **quick turn-arounds** (1 - 5 days) and high quality coatings, we offer the following:*

***Minimum charge is only \$25.00.** Compare that to where you have been sending your parts.*

No additional charges to expedite service.

Surface Solutions

Incorporated



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Quick, High Quality, Low Cost, Hard-Coatings