High Purity
SPUTTERING
TARGET

# TiN

NANOSHEL
Creating Miracles in Black

# TITANIUM NITRIDE
## Sputtering Target

TiN sputtering targets are used to make coatings, which are for edge retention and corrosion resistance on machine tooling, such as drill bits and milling cutters, often improving their lifetime by a factor of three or more. TiN are also used in microelectronics, where they serve as a conductive connection between the active device and the metal contacts used to operate the circuit, while acting as a diffusion barrier to block the diffusion of the metal into the silicon. Owing to their high biostability, TiN layers may also be used as electrodes in bioelectronic applications.

## Quick Facts

| | | |
|---|---|---|
| Product | : | Titanium Nitride Sputtering Target |
| Stock No | : | NS6130-10-1331 |
| CAS | : | 25583-20-4 |
| Backing Plate | : | (As per Customer requirement) |

## **Additional** Characteristics

| Stock No. | Purity | Diameter | Thickness |
|---|---|---|---|
| NS6130-10-1331 | 99.99% | 50.8 mm ± 1mm | 3 mm ± 0.5mm |

## **Technical** Specification

| Molecular Formula | Molecular Weight | Melting Point |
|---|---|---|
| TiN | 61.87g/mol | 2930°C |

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