

## Nitron MC

Nitron MC is a dark grey-black hard carbon coating applied in an advanced physical vapour deposition (PVD) process.

The coating has exceptional tribological properties due to its high hardness (1000Hv) and a very low coefficient of friction (0.1). The graded structure gives outstanding adhesion and toughness making it suitable for wear reduction in many sliding applications.

Tecvac Nitron MC is carried out in purpose built processing machines which allow the deposition to be carried out at low temperatures (150 to 250°C). The coating has a very smooth finish requiring no post-process operations.



## Typical Properties:

Coating Thickness	2-4um
Hardness	1000Hv
Coefficient of Friction	0.1 - 0.15
Max Operating Temp	300 °C

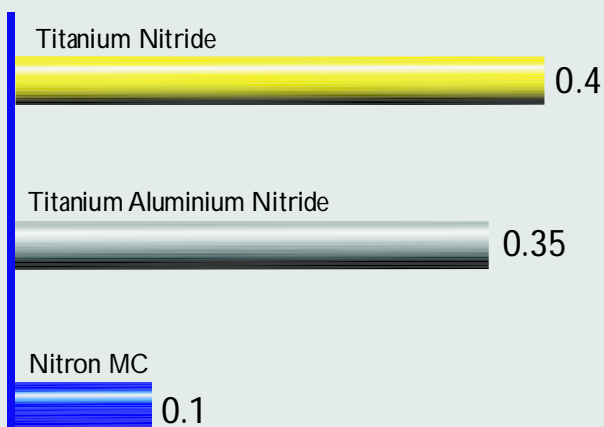
## Applications

Engine components

Transmission systems

Hydraulic components

Sliding wear parts



Coefficient of Friction Against Steel

The low coating temperature allows Nitron MC to be deposited on a very wide range of materials including case hardened steel engine and transmission parts.

The main applications for the coating are in:

- Autosport
- Aerospace
- Precision Engineering

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