



CERTESS[®] DCN

**Hard and tribological coating
implemented by CAM technology.**

<u>Composition :</u>	Carbon-Hydrogen based coating with Chromium – Nitrogen underlying layer
<u>Structure :</u>	Dense, amorphous carbon, Dense, CCF, nano-scaled grains CrN
<u>Temperature resistance:</u>	Up to 350°C depending on test protocol.
<u>Hardness :</u>	1000 to 3200 HV .
<u>Process Temperature :</u>	150 to 350°C, according to the substrate material.
<u>Thickness :</u>	typically 2 to 4 µm according to application.

Typical applications :

- Mechanical parts for abrasive wear resistance, heavily loaded contacts.
- Automotive components for friction losses reduction.



Acceptable materials to be coated :

- Metals and alloys with no or small content of Zn, Mg, Pb...
- Carbides, plain or brazed on steel part,
- Allowing a process temperature : minimum 150°C.

Other characteristics :

- Coating on finished part, no significant dimension variation,
- Excellent chemical inertia.