

A solid yellow oval shape is centered above the main title.

CERTESS[®] Ti

**Hard and tribological coating
implemented by P.E.M.S.**

<u>Composition :</u>	Titanium-Nitrogen based coating
<u>Structure :</u>	dense, nano-structured, CCF type.
<u>Temperature resistance:</u>	500°C depending on test protocol.
<u>Hardness :</u>	2700 HV .
<u>Process Temperature :</u>	250 to 450°C, according to the substrate material.
<u>Thickness :</u>	typically 2 to 6 µm according to the application.

Typical applications :

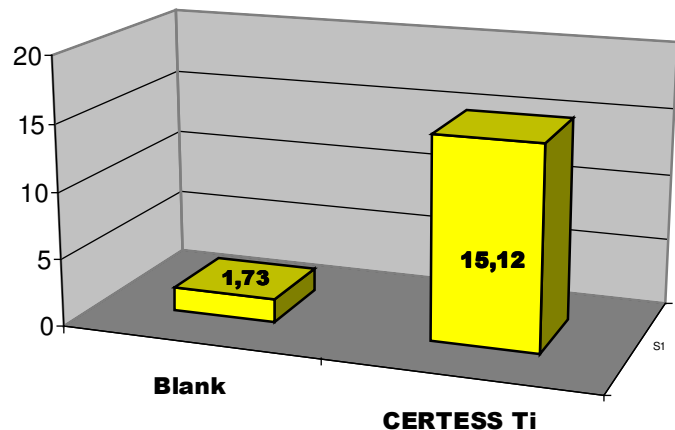
- Mechanical parts for abrasive wear resistance,



- Forming tools,
- Cutting tools,

Dry turning Z2 CN 18-10
with CW inserts

$V_c = 220$ tr/min
 $A_p = 0,5$ mm
 $F_z = 0,06$ mm/tr



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 350°C.

Other characteristics :

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