



CAPRICORN 2200 Nickel PTFE

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Specialist and precision surface treatments at
capricorn AUTOMOTIVE Limited



Why choose Nickel PTFE Coating?

Capricorn 2200 the electroless nickel PTFE composite coating provided by Capricorn and developed by MacDermid. This coating allows the co-deposition of a thin hard nickel phosphorus alloy containing lubricating PTFE particles. Capricorn 2200 deposits evenly and consistently on most metallic substrates. Even the most complex components can be plated with as thin as 2 – 3 microns deposit.



Nickel PTFE coating at capricorn

Capricorn 2200 deposits have a PTFE content from as little as 3%, to as high as 35% (by volume). The amount required can be adjusted to suit the particular application. Which ever alloy is chosen, the deposits can be Lead Free and RoHS, ELV, WEEE compliant.

- Coating Thickness – 2.5 - 15µm
- Particle Size < 300 (nm)
- Coefficient of Friction – as low as 0.15
- PTFE Deposition Range 2-12wt% (6-10wt% typ.)
- Hardness, HK100 200-500 as plated – (2Hrs@300°C 210-850)
- PFOS/PFOA Free - Yes

New PTFE e dispersant technology = more co-deposition of PTFE particles

Low particle size = Consistent deposit

