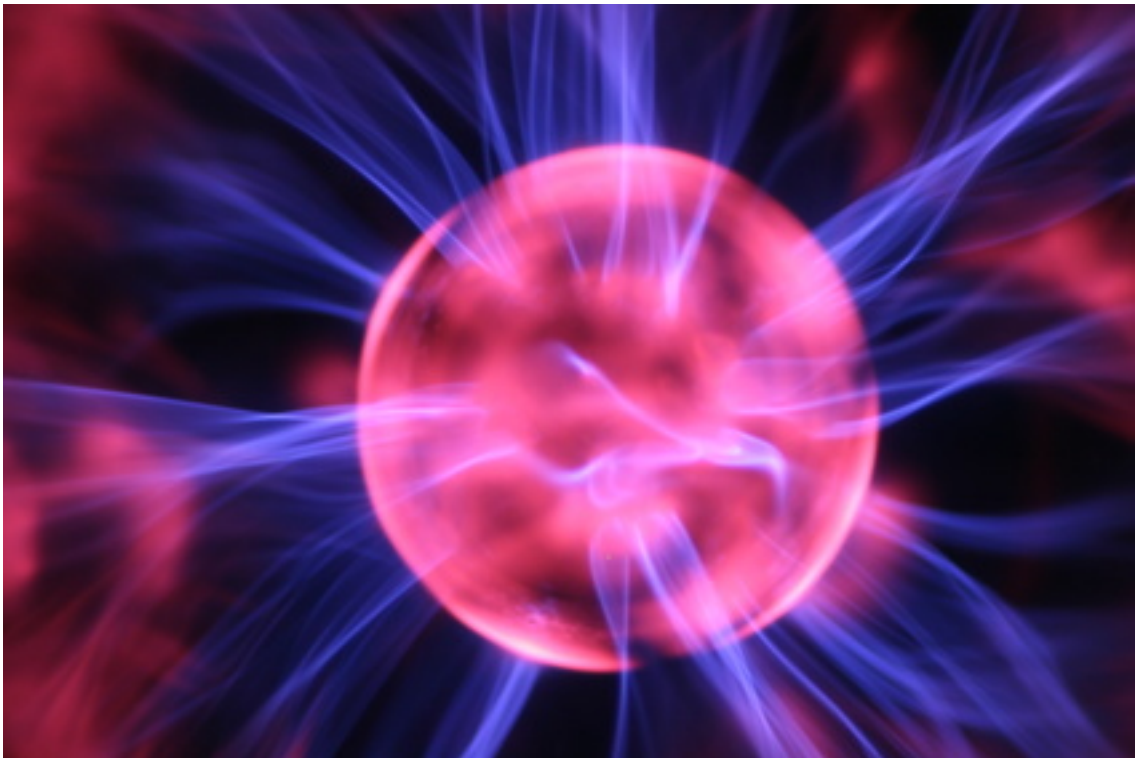




PVD - CVD COATING CENTER

A.P.G Nitrocoat



A.P.G. Nitrocoat

Accelerator Plasma Gas: the way to perform nitriding treatment and PVD process with only one step process

A.P.G./Nitrocoat: nitriding process performed in last generation PVD plants, improved by CRT, that uses plasma generated with gases normally used to do surface coatings.

The result of Plasma Gas Acceleration is a short time process, a hardened layer with low nitrides percentage, high hardness (depend to the kind of steel), better resistance to fatigue, less deformation of material to be treated.



- *process runs at 480°C*
- *it's possible to cover the substrate with all PVD coatings after nitriding process (which is without white layer)*
- *in low pressure process, the plasma extends itself, while in traditional nitriding process the plasma focuses only around the piece that should be treated*
- *it avoids undesirable phenomena of overheating of edges and the cathode effect inside holes*
- *the process time for nitriding depth is significantly lower than time used in a traditional nitriding*
- *no white layer*

APPLICATIONS :

- » *Plastic moulding specially for glass loaded polymers;*
- » *Moulds and outfits for die casting*
- » *Drawing and shaping*
- » *Automotive and components*



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