## Metal Treatment

thin film to the substrate to improve the over-all performance of

version coating. It can be iron,

the finished coating by strengthening the bonding between the 2 surfaces. It is some times called con-

**Phosphating Agent** 

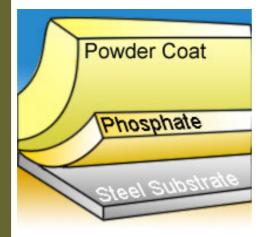
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## **OTHERS**:

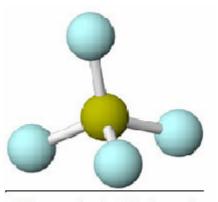
## Stamping oils

Degreasers



zinc, polycrystalline, chromate, or manganese phosphate film. They are applicable on both ferrous and non-ferrous surfaces (zinc, aluminum or manganese). Iron and Zinc performing powder coating extra phosphating are the commonest among all phosphating agents. Iron phosphate is the thinnest of phosphate films. In this application ovens to affect coatings firmness. process, an iron oxide base is developed, followed by a flat or amorphous metal phosphate topcoat. To form the oxide coating, an accelerator or an oxidizer is involved. Mild acids of phosphorous are often incorporated to provide etching and source of phosphorous. 3 factors of Times, Concentrations and Temperature are parameters that will determine the thickness of iron phosphate film

Phosphating is to provide a built-up on substrate.



Phosphate Molecule

Zinc phosphate is more adherent than iron phosphate . It forms a crystalline coating with the ferrous substrate. The principle of its phosphating process is anodic. It is more corrosive resistant. However the downside for Zn phosphating is that it is economically less competitive and that when care must be directed to avoid uneven coating. Larger crystals of Zn phosphate might form capillary in

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