

# **WHITE GOODS INDUSTRY**

This photograph illustrates a range of components treated for the white goods industry. The pressings in the foreground were originally made from 2 mm thick, plain low carbon steel and zylon coated. Any lack of strength would be overcome by increasing the gauge of the material and sometimes re-tooling would have to be considered. By applying the Nitrotec treatment it was possible to provide the strength and remove the need to zylon coat, which further eliminated a problem of de-burring and cleaning the holes after zylon coating.

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## **WHITE GOODS INDUSTRY (cont)**

The black colour was acceptable and the required humidity resistance was also achieved. As this company became more confident with Nitrotec, it introduced a new range of hinges with a reduction in material size from 2mm to 1 mm thick and in many cases a more complex design.

The Tube with a row of holes is a burner for a domestic cooker using LPG fuel, which due to the composition could leave heavy acidic water deposits inside the burner when the cooker was turned off.

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## **WHITE GOODS INDUSTRY (cont)**

Normally powder coated, the inside of the burner was bare steel leading to corrosion with the holes becoming blocked with serious consequences. The Nitrotec process allowed both the inside and outside of the burner to be treated offering corrosion resistance to both areas. In the back ground is a flame guard on the grill of a domestic cooker, normally manufactured from Stainless steel, which was costly. A Nitrotec low carbon steel was substituted giving improved strength and corrosion properties. This also produced an easier manufacturing route and major material cost savings.

