

Guidance Designer to selection the suitable process treatment and finishing metal product surface

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Abstract

Over the last few decades many methods of treatment and coating have been developed and used to reduce friction and to protect surfaces from damage, especially in metal products.

Scientists have become aware that the surface is the most important part of many engineering products, and most of the usability problems have to do with surface characteristics.

Many functionally important properties depend on surface treatment, such as corrosion protection and functional, aesthetic and environment-friendly properties.

It is therefore very clear that the process of selecting suitable coatings or surface treatment requires a clear and specific methodology. This process should be carried out at an early stage of product development. It is essential that developers consider the surface requirements during the initial stages of ideas immediately after Meet the requirements of users and market.

-The problem of the research

is the need for precise systems to choose the surface treatment of metal products to meet the needs of the user will be easier and faster in the application and less expensive in production and environmentally friendly and result in the surfaces are compatible functionally.

- The objective of the research

is to develop a scientific methodology for the selection of surface treatment of metal products through an analytical study of the most important methods used and know the most important advantages and disadvantages and determine how the designer chooses the appropriate way to the materials of the product and its function.

This will be done by the assumption that determining the appropriate way to end the surface of the product reduces many of the problems that can be experienced by the product later. And achieved a great deal of technical, functionally and economic consensus.

Keywords:

Surface treatment - finishing selection - coatings classification - Designer Guidance