

## **INTRODUCES - HT-65**

### **INTRODUCTION**

The process HT-65 provides excellent corrosion resistance & cosmetic appeal for ferrous based components. The treatment also enhances the other engineering properties, i.e. wear resistance, lubricity, & fatigue strength. This process replaces Chromium & other critical materials where plating has traditionally been used for wear, corrosion resistance & improved cosmetic appearance.

### **THE PROCESS**

HT-65 is a thermal-chemical diffusion process wherein ferrous parts are heat treated at 1050 °F through an appropriate formulation to assure the interface of the materials being processed. The intrinsic properties of HT-65 is it's relatively low coefficient of friction as well as the degree of lubricity in both the dry state as well as under lubrication. This highly lubricious process prevents stainless materials from galling & once HT-65 is applied the surface becomes Rockwell 70 in hardness on the "C" scale.

### **DESCRIPTION**

The HT-65 layer is highly resistant to wear, seizure & corrosion. It is durable practically up to the temperature at which it was generated. Typically, HT-65 penetrates the ferrous matrix to a depth of 0.020" to 0.040" to form the diffusion zone, austenitic steels develop an extremely hard & complex compound zone distinctive from all other ferrous metals, typically 0.0007" to 0.0009" thick, & a diffusion zone approximately 0.003" deep.

### **GENERAL APPLICATIONS**

HT-65 may be applied to i.e. valve parts, ball seats, knife gates, sleeve bearings, impellers & all metal parts to prevent premature wear from friction & galling from thermal expansion in high temperature applications.



### **BENEFITS**

HT-65 components have excellent sliding & running properties, a very low coefficient of friction minimizes the incidence of abrasion due to wear & galling (i.e. metal to metal welding). The scuff load depending on the material pairing is 2-5 times better.

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