

# HABCO HP 70

**A VERY HIGH ABRASION RESISTANT,  
TUNGSTEN CARBIDE BEARING ALLOY**

## FEATURES

**HABCO HP 70** is an easy to apply, very hard, surfacing alloy that contains tungsten carbide particles. These chips make it extremely abrasive resistant, even under the most severe conditions. This alloy is resistant to corrosion, even at high temperatures. It can be applied in very thin deposits or thicker deposits may be used where necessary.

## APPLICATIONS

**HABCO HP 70** is used when severe abrasion is needed in large area metal contact. This alloy can be used where gravel, cement and other abrasive media causes wear. **HP 70** can be used on steels, cast iron, stainless steels, nickel and nickel alloy. It has good build-up characteristics that are good for cutting or chopping edges. Chipper knives are an excellent application for this product.

## PROCEDURE

The area to be overlaid should be cleaned just before applying. Preheat the entire area to 600°F (316°C) (on steel, a blue tint will be noticed). Spray a thin layer of powder alloy over the entire area keeping the torch tip approximately 2-3 inches from the work piece. Without spraying any more alloy, position the tip about 3/4" to 1" above the work piece and wet the alloy out. If a thicker deposit is required, repeat the process. If a gritty surface is needed, a very thin coating should be applied so that the tungsten carbide particles can protrude from the surface after it is wet out.

## TECHNICAL DATA

**HP 70** has a tough nickel, chromium matrix that contains tungsten carbide particles. When the finer particles dissolve in the matrix, higher hardness's are achieved. As the matrix wears away, the whole carbides are exposed and resist wear, even in extreme situations. If finishing is required, use water cooled silicon carbides or diamond grinding wheels.

**Matrix hardness approx.: RC 63**

**Tungsten carbide particle hardness: RC 70**