

HABCO HP 75

**A SUPER, HIGHEST ABRASION RESISTANT,
TUNGSTEN CARBIDE BARING ALLOY**

FEATURES

HABCO HP 75 has a very high percentage of large tungsten carbide particles in a hard nickel base matrix. The amount and size of the carbides make it the ultimate in abrasion resistance. The deposits of **HP 75** are sharp and gritty for applications that need a ripping surface. Thicker deposits tend to be smooth because the heavier tungsten carbide particles settle lower in the thick deposits. As the deposit wears down, the carbides are exposed and wear stops.

APPLICATIONS

HABCO HP 75 is used where exceptional abrasion resistance is needed, especially in heat cycling or corrosion resistance situations. This alloy, when deposited as a thin layer, leaves dense, coarse tungsten carbides protruding making it ideal as a surface for take-up and in-feed rolls; also ideal for building up edges or any fast wearing parts of tools. Can be used on steels, cast iron, stainless steel, nickel and nickel alloys

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

HABCO HP 75 is a heterogeneous alloy with a high nickel, high chromium matrix containing the optimum amount of coarse tungsten carbide. Matrix hardness RC 64. tungsten carbide hardness is approximately RC 70.