

UNITED ALLOYS
RESEARCH & DEVELOPMENT INC.

125 BLACKSTONE AVE.

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9130HP

A VERY HIGH ABRASION RESISTANT, TUNGSTEN CARBIDE BEARING ALLOY

GENERAL CHARACTERISTICS:

9130HP 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:

9130HP is used when severe abrasion is needed in large area metal contact. This alloy should be used where gravel, cement, and other abrasive media causes wear. 9130HP can be used on steels, cast iron, stainless steels, nickel and nickel alloys. It has good build-up characteristics that make it especially good for cutting or chopping edges. Chipper knives are an excellent application for this product.

TECHNICAL DATA:

9130HP has a tough nickel, chromium matrix that contains tungsten carbide particles. When the finer particles dissolve in the matrix, higher hardnesses 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 64

Tungsten Carbide Particle Hardness Rc 70

PROCEDURE:

The area to be overlaid should be cleaned just before applying. Preheat the entire area to 600°F (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 workpiece. Without spraying any more alloy, position the tip about 3/4" to 1" above the workpiece 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.

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HEAVY DUTY 9130 HOT SPRAY