



HI-ALLOY HI-ABRASION

ONE STEP METAL ALLOY SPRAY POWDER

DESCRIPTION: Hi-Alloy Hi-Abrasion spray powder is a self-bonding, metal alloy, build-up spray powder designed to be applied at very low temperatures (200° - 300° F) eliminating distortion or metallurgical changes in the base metal. The deposited metal is capable of withstanding service temperatures of up to 1600° F, and provides excellent resistance to high stress grinding and abrasion.

CONVENIENCE: Hi-Abrasion's one-step application process eliminates the need to change powders, gas pressures, and eliminates laminations in the deposit which can result in coating failures.

VERSATILITY: Hi-Abrasion powder can be applied to rough ground, grit blasted, or machined, carbon steel, stainless steel, cast iron, and aluminum parts.

METALLURGICAL BONDING: Hi-Abrasion powder is designed to react exothermically in the flame producing deposits which exhibit superior resistance to high stress grinding, abrasion, and particle cavitations from moving liquids and air.

MACHINABILITY: The deposit hardness is Rockwell C 35 - 40 for the matrix, Rockwell C 70 - 75 for the laminar carbides, and Rockwell C 70 - 75 for the acicular carbides. Deposits are non-machinable and must be ground to final size or shape.

APPLICATIONS: Exhaust fans, feed screws, mixing augers and blades, gripper rolls, coal and grain chutes, pump sleeves, flyash separators, wire drawing capstans, drive rolls, roller guides, pump housings, foundry patterns, and agricultural equipment such as discs, harrow and cultivator points.