



Eutalloy® TungTec 10112

Atomised Metal Powder for anti-wear coatings

Description:

TungTec 10112 is a nickel-based alloy with a high concentration of Diamax extra hard particles for enhanced wear resistance, in particular to abrasion. These and other maintenance-engineered properties make 10112 an ideal protective coating for steels and nickel alloys. It can be safely recommended for protection of highly-stressed machine parts or tools.

TungTec 10112 is made up of two basic components: a nickel matrix and hard Diamax particles.

The Diamax particles are in this case powdered tungsten carbide, with granulometry designed for maximum abrasion resistance.

Machine parts and tools protectively coated with TungTec 10112 have been shown to increase their service life several times compared to the normal life of a new part or tool. In addition to this enormous saving in basic investment (spare parts), additional savings are sometimes possible by using cheaper base metals (coated with TungTec) for the original parts.

Technical data:	<i>Minimal</i>	<i>Typical</i>
Hardness (HRC):	59	63
Diamax typical (HV _{10g}):		2000
Max. Service temperature (°C):		~700
Abrasion resistance:		Very good.
Heat resistance:		Good.
Corrosion resistance:		Good.
Machinability:		By grinding.
Base metals:	Steels including stainless, nickel alloys.	

Torches: Eutalloy A, B, C, Eutalloy Express and SuperJet.

Applications:

Protective coatings for conveyor screws, clay mixers, sand and grit mixers, turbine vanes, wire-drawing drums, fan blades, pump screws, etc.

Procedure for use:

Preparation:

Any oxides, dirt, grease or other contamination should be removed carefully before application. No preheating is required for thin metal parts or for coating edges. Large parts, and especially parts of very thick section, should be heated to about 300°C (blue hot).

Coating procedure:

Adjust the Eutalloy torch flame to neutral for coating.

For maximum assurance against oxidation of the base metal we recommend an initial thin coating (0.2-0.3 mm) sprayed onto the base metal and subsequently fused. The alloy is fused when it acquires a glazed appearance.

Distance between the flame cone tip and the molten pool: approx. 6-10 mm.

After spraying allow the part to cool slowly, avoiding draughts. If-possible place it in vermiculite or dry sand.

Packaging:

Eutalloy 10112 is available in both the 500-gram modules, and the 5kg Mega Pack.

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