



## Eutalloy® CobalTec 10092

Atomised Metal Powder for anti-wear coatings

### Description:

CobalTec 10092 is a strong tough alloy in spheroidal for overlaying steels, and nickel alloys. Cobaltec 10092 offers all the features of a cobalt base alloy-corrosion resistance, effective hardness at high temperatures, compressive strength and low coefficient of friction.

CobalTec 10092 is manufactured using a process of atomisation, designed to ensure both optimum spheroidisation and controlled granulometry. This in turn ensures trouble-free application of the alloy using Eutalloy.

CobalTec 10092, applied with the Eutalloy System, produces smooth and uniform quality coatings.

This maintenance-engineered coating technology increases the value and reliability of parts treated, with results far superior to conventional repair processes, as well as savings in costs including machining costs.

Industrial components protectively coated with CobalTec 10092 can outlast new parts several times over, even making it possible to use cheaper base metals for such components.

<b>Technical data:</b>	<i>Typical</i>
Melting range (sol. /liq.) (°C):	1100-1200
Hardness (HRC)	45-50
Max. Service temperature (°C):	~800
Metal-to-metal friction resistance:	Excellent
Abrasion resistance:	Good
Heat-stability:	Excellent
Corrosion resistance:	Excellent
Machinability:	By grinding
Coverage:	1Kg covers 1140 cm <sup>2</sup> @ 1mm thickness

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

### Applications:

Protective coating of Valves; Shear Blades, Hot punches, Hydraulic Valves, Impeller Parts, Conveyor Screws, Turbine Guide Vanes, Wire-drawing Dies, Fan Blades, Pump Screws.

### Procedure for use:

#### **Preparation:**

All surfaces to be coated should be thoroughly cleaned, removing all contaminants, oxides and grease. Thin surfaces and edges require no preheating. Large, heavy parts should be heated to about 300°C (blue hot).

#### **Coating instructions:**

For coating operations the flame of Eutalloy torch should be adjusted to 3X carburizing when powder feed is depressed.

To prevent oxidation of the base material we recommend spraying a thin coat of CobalTec 10092. A second coat is delivered in the following manner: preheat locally to fusion point (when the first coat becomes glazed in appearance), then spray the second coat, moving progressively along the entire surface following this fuse-then-spray procedure.

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

Leave the part to cool slowly and avoid draughts. Where possible, place it in vermiculite.

#### **Packaging**

CobalTec 10092 can be obtained in a 700-gram module.

# DIGITALWELD

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