



Eutalloy® BronzoChrom 10185

Atomised Metal Powder for anti-wear coatings

Description:

BronzoChrom 10185 is a nickel-based alloy with ideal properties for the coating of steels, stainless steels, cast irons and nickel alloys. It has exceptional impact resistance, and is easy to machine with standard cutting tools. BronzoChrom 10185 is corrosion and oxidation resistant even at high temperatures. Its most outstanding characteristic however is a low coefficient of friction, which makes BronzoChrom 10185 deposits especially resistant to metal-to-metal wear.

Application designed system:

BronzoChrom 10185 is manufactured by a process of atomisation, designed to ensure both optimum spheroidisation and controlled granulometry. This in turn ensures trouble-free fusion of the alloy, using Eutalloy torch.

For cost-effective maintenance:

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, and savings in costs including those of machining.

The biggest savings are due to a substantial increase in service life - in some cases many times that of new but untreated parts - and the possibility of making coated parts from less expensive base metals.

Technical data:	Minimal	Typical
Melting range (sol./liq.) (°C):	1050	1175
Hardness (HV ₃₀):	350	390
Specific gravity (g/cm ³):		7.9
Metal-to-metal friction resistance:	Excellent.	
Impact resistance:	Very good.	
Machinability:	Excellent, with normal cutting tools.	
Thermal resistance:	Very good.	
Corrosion resistance:	Very good.	
Base materials:	Recommended for steels, stainless steels, cast irons and nickel alloys.	

Torches:

Eutalloy A, B, C, Express and SuperJet.

Applications:

Ideal for protective coatings on moulds and dies used in plastics, making shafts and journals, cams, casting dies, and for buttering layers when coating with harder Eutalloy alloys.

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 neutral during powder feed.

To prevent oxidation of the base material we recommend spraying a thin coat of BronzoChrom 10185.

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.

The distance from nozzle to surface: approx. 6-10 mm.

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

Packaging

BronzoChrom 10185 can be obtained in both a 500-gram module and a 5kg Mega Pack

DIGITALWELD

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