

TeroCote 7888 T

Carbide-Containing Brazing Alloy In Coil Form

DESCRIPTION

TeroCote 7888T is a high performance anti-wear alloy. Produced in a single continuous coil from, 7888 T is a flexible continuous cord, comprised of a nickel core wire covered with an elastic binder which contains a high proportion of angular tungsten carbides and alloy powder. The coil is wound on a cellulosic material spool which can be mounted to facilitate use with automated wire feeder systems. 7888T deposits offer an extremely dense mass of ultrahard carbides (80% by weight) in a tough, durable coating with low sensitivity to cracking due to a nickel enhanced matrix.

The deposit structure of 7888T offers demonstrably superior anti-abrasion properties against a wide variety of mineral matter. This is due not only to the extremely high hardness of the carbides, but also to their angular profiles. Unlike spheroidal shapes, carbides with angular profiles resist being ejected from the matrix as it wears around the carbides. The fluxing properties of both the binder and the alloy powder help control oxidation during deposition. For problems of very aggressive fine particle abrasion, 7888T can be applied in conjunction with a Eutalloy® powder such as 10112.

- Heavy-duty protection against abrasion
- Utilizes angular carbides which remain captured in the matrix during service
- Excellent wetting action for smooth and even deposits

APPLICATIONS

7888T is designed expressly to provide durable protection of large industrial components extending effective service life. It can be applied to a wide variety of ferritic base metals, although not for steels containing high percentages of Manganese (ie. 12 - 14%Mn)

IMPORTANT: 7888SH is not recommended for use on high manganese, authentic steel

- Ripper Teeth= Mining & Earthmoving
- Drill Bits, Stabilizers, = Oil Exploration
- Mixer & Scraper Blades= Brick/Cement making
- Extrusion Press Screws= Mineral Processing
- Conveyor Screws= Iron & Steel
- Decanter Pump Rotors and Sleeves= Agriculture
- Cutting Edges on Plow Shares

PROCEDURE FOR USE

DEPOSITION BY OXY/ACETYLENE FLAME:

1. Mechanically clean the area to be coated by grinding or grit blasting.

2. Adjust torch for a neutral to slightly oxidizing flame. Apply a general preheat. 650 - 400°F (204 343° -C), followed by a concentrated local heating of the area to be coated, 900 - 1000°F (482 - 538°C)

3. Bring the end of the coil into contact with the work piece, at an angle of 35° from the work surface, with the torch nozzle at 60 -70° pointing in the direction of travel.

4. As the alloy begins to melt, oscillate the torch nozzle from side to side advancing the flame along the alloy, which should be kept in contact with the work surface. Maintain a 3/16" gap between the inner flame core and the work surface.

TECHNICAL DATA:

Typical hardness

Hardness, Matrix: 55 HRC

Micro-Hardness, Carbides:

K2500

Max. Temperature Service:

1300°F (704°C)

DIAMETER
5.0mm
6.0mm
8.0mm