

Xuper DrilTec 8800

Premium Tungsten Carbide Rod With High Abrasion Resistance

DESCRIPTION

Xuper DrilTec 8800 is a torch alloy manufactured under rigorous conditions which prevent loss of de-oxidizers and Diamax particle erosion. The alloy formulation consists of hard Diamax particles dispersed throughout a copper-base alloy that forms the matrix. 8800 alloys also include the most advanced, ATMOSIN containing XFC flux coatings for maximum deoxidizing and cleansing action during deposition. Improved weldability permits bonding at a temperature well below the critical temperatures of ferrous metals. Recommended for use on steels and cast iron.

APPLICATIONS

- Augers: Reamers
- Bucket Teeth: Pilots
- Burning Shoes: Junk Bits
- Composite Drills : Earth Moving Equipment
- Cutters: Rotary Cutting Bits
- Drills : Rotary Cutters
- Masonry Drills: Rotary Cutting Shoes
- Plowshares: Drill Nuts

PROCEDURE FOR USE Clean and degrease the surface. Use the “pure matrix” end where pre-tinning is required. Use a neutral flame with a large tip size to achieve a broad flame. Heat tinned area to melting temperature, then direct flame onto rod until flux melts and alloy begins to flow out. Continue heating the work slightly ahead of the melting flux and alloy. Rotating the rod assures uniform distribution of Diamax particle. Avoid working in too closely with inner flame cone to avoid overheating.

TECHNICAL DATA:

Typical Hardness
Hardness (Diamax Particles): 89 - 91 HRA
Hardness (Matrix): 200 HB
Bonding Temperature:: 1400 - 1600°F
(760 - 870°C)
Tensile strength : 680 N/mm² (98,000 psi)
Yield strength : 430 N/mm² (62,000 psi)
Elongation : 30%
Typical Hardness : 175 HB
Current Polarity: AC/DC (+)

DIAMETER
1.6mm
3.2mm
5.0mm
6.4mm