

Gas shielded welding cored wire technology for wear protection & repair

EnD0tec® D0*48



- Severe abrasion & erosion resistant graded tungsten carbide alloy
- Ferrous matrix reinforced with dispersed, tenacious recrystallised phases
- Full properties with single pass
- Deposits very resistant to grinding

WELDING





Worn areas on expansion center



Extrusion screw protected against abrasion combined with pressure



Double extrusion screw for the plastic industry

Features & Benefits

Alloy type	Microstructure	Properties
Fe -WC	WC Fe matrix	Hardness matrix 55 HRC Hardness WC 2400 HV

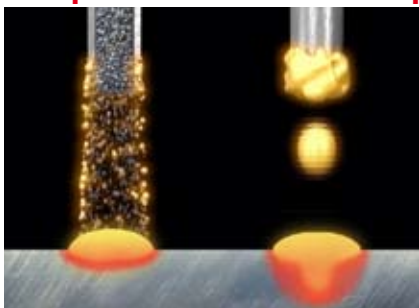
- Severe abrasion & erosion resistant graded tungsten carbide alloy
- Ferrous matrix reinforced with dispersed, tenacious re-crystallised phases
- Full properties with single pass
- Second final pass possible whilst still hot
- Ready formation of stress relieving cracks
- Slag & spatter free deposits
- Deposits very resistant to grinding

Higher weld deposition rates

EnDotec®'s composite cross sectional design, automatically produces a higher current density in the electrode's metallic periphery over solid MIG/MAG wires of the same diameter using the same welding amperage. This ensures over 30% faster electrode fusion without sacrificing weld quality giving record

weld deposition rates over MIG/ MAG and Manual Metal Arc processes.

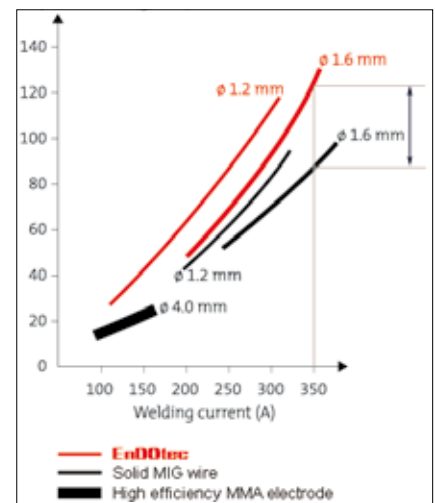
Peripheric cool arc concept



Thanks to EnDotec®'s intrinsic higher current density, a cored wire can always be welded at lower amperages than a solid wire whilst keeping a stable metal transfer across the arc due to ionising elements in the core. Lower heat input means that EnDotec® welds have better bond-

Applications

For semi-automatic & robotic welding applications. Protective coating of parts particularly in the following industries : Mining, quarries, drilling, tunneling, public works Extrusion press parts, transport screws, conveyors, pump rotors and bodies, cylinder crushers, mixer paddles etc.



ing, lower dilution, superior microstructure properties and minimal heat affected zones for maximum service performance.

Your resource for protection, repair and joining solutions

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