Gas shielded welding cored wire technology for wear protection & repair

EnDOtec® DO*11

- Severe abrasion & erosion resistant graded tungsten carbide alloy
- Nickel alloy matrix resists corrosion, heat & oxidation
- Resistant to stress relieving cracks & moderate impact
- Maximum service temperature 600°C

WELDING

Castolin Eutectic®
Eutectic Castolin

EnDOtec® DO *11

Pump case

Grid applied to the grab

Wearfacing of shredder blades

Features & Benefits

Alloy type	Microstructure	Properties
Ni -WC	WC Ni matrix	Hardness matrix 52 HRC Hardness WC 2400 HV

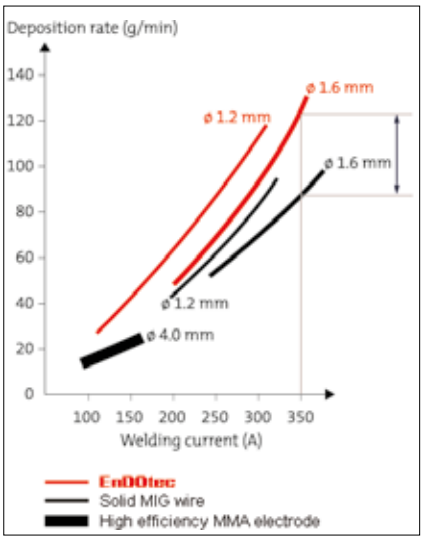
- Severe abrasion & erosion resistant graded tungsten carbide alloy
- Nickel alloy matrix resists corrosion, heat & oxidation
- Multipass capability for thicker coatings (3 layers)
- Resistant to stress relieving cracks & moderate impact
- Prevents ingress / contamination by foreign or unhygienic matter
- Slag & spatter free deposits
- Deposits very resistant to grinding
- Maximum service temperature 600°C
- Cannot be cut with oxy fuel torches

Applications

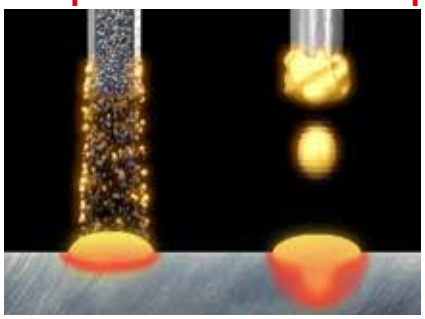
For semi-automatic & robotic welding applications.
Designed for antiwear protective coatings on carbon steels, alloy steels, stainless steels and nickel alloys. Typical industries include agricultural, food, beverage, organic oils, pulp and paper, chemical processing.
Oil pressing parts, transport screws, cellulose mixing blades, paddles, conveyor, bone mill hammers, etc.

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

Your resource for protection, repair and joining solutions

Statement of Liability: Due to variations inherent in specific applications, the technical information contained herein, including any information as to suggest product applications or results, is presented without representation or warranty, expressed or implied. Without limitation, there are no warranties of merchantability or of fitness for a particular purpose. Each process and application must be fully evaluated by the user in all respects, including suitability, compliance with applicable law and non-infringement of the rights of others, and Messer Eutectic Castolin and its affiliates shall have no liability in respect there of.

Castolin Eutectic
Eutectic Castolin

www.castolin.com www.eutectic.com