



**PREMIUM**

Chrome and Nickel free FCW

# **EnD0tec** **SafeHard 700**

Welding

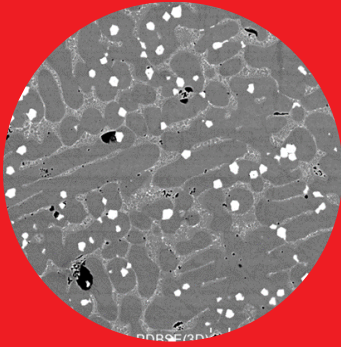
## **Innovation in Safety and High-Performance Wear Protection**

- Reduced fume emission with ZERO risk of CrVI presence from the wire
- Safer and better performance than all Hypereutectic Chrome Carbide Overlays
- Exceptional resistance to high abrasion combined with impact even at high temperature
- Excellent general weldability and remarkable out of position



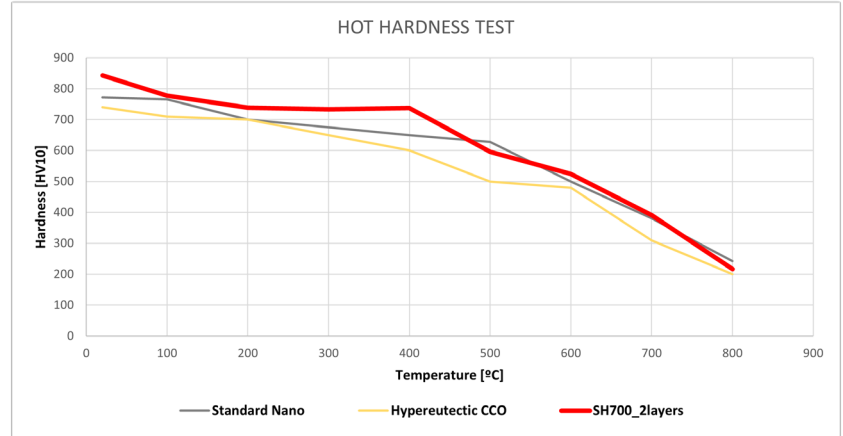
# SafeHard 700

This exclusive alloy contains very fine complex carbide precipitations evenly distributed in a boron hardened martensite microstructure.



## Points of Differentiation

- Excellent general weldability and remarkable out of position, even vertical up.
- Minimized Carbon Foot Print, less than half compared to traditional Cr and Ni based alloys.
- It has exceptional resistance to impact and abrasion, and it keeps its mechanical properties up to high temperatures (57 HRC at 600 °C; 41 HRC at 700 °C).
- Fulfillment of the most exigent Exposure Occupational Limits (EOL).



## Risk assessment

Welding invariably produces gaseous and hazardous substances, with approximately 95% of the welding fume originating from the filler metal (HVBG, 2006).

Despite the acknowledged risks, welding is an essential activity that cannot be completely avoided. However, a risk assessment must be conducted prior to initiating any welding tasks. To address these concerns, SafeHard 700 has been introduced to the market as a low hazard filler metal, especially when the exposure of workers to hazardous substances is inevitable. Additional preventative measures should be implemented in the following order of priority: ventilation, organizational and hygiene measures, as well as personal protective equipment.

**SafeHard 700 has no Cr and Ni in its formulation so there will not be CrVI and Ni in the welding fumes**

