



# CEWELD E DUR RU (Ni)

**TYPE** NiCrBSi based SMAW electrode filled with tungsten carbides for extreme wear resistant overlays.

**APPLICATIONS** CEWELD® E DUR RU (Ni) can be surfaced on all types of steels except cast iron or Mn steel. This alloy is the most wear resistant grade for most hardfacing applications. With very fine dust abrasion, the matrix may be washed out and lose the embedded tungsten carbides, in which case another hardfacing product should be considered.  
The main areas of application are the coating and rebuilding of stabilizers and other oilfield tools where maximum protection is required. Also for screws, impellers, mixer plates in the brick and clay industry and on decanter screws in the food and chemical industry where corrosion resistance is required.

**PROPERTIES** CEWELD®E DUR RU (Ni) is a coated cored wire tube for electrofusion welding, a hardfacing product consisting of crushed tungsten carbide and a Ni-based alloy. The crushed tungsten carbide guarantees a long service life. In addition, the Ni-based alloy offers excellent corrosion resistance. CEWELD®E DUR RU (Ni) has excellent welding and wetting properties at very low currents. It is easy to handle and inexperienced welders will have no difficulty in producing smooth deposits without cracking. Multi-layer build-ups are possible and worn parts can be restored without removing the old material. CEWELD®E DUR RU (Ni) can be used on all types of steel except cast iron or Mn steel.  
SWSC: 3,000 HV0.1  
Matrix: 480-520 HV0.1  
Special carbides (SC): 2,900 HV0.1

**CLASSIFICATION** EN ISO 14700: E Ni20

**SUITABLE FOR** Scratchers, Mixers, Deep drilling, Bentonit mixers, Cement mixers, Stabilisers, Impellers, Augers etc.

**APPROVALS**

**WELDING POSITIONS** 

| TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%) | WSC |
|---------------------------------------------|-----|
|                                             | 65  |

| MECHANICAL PROPERTIES | Heat Treatment | R <sub>P0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Hardness |
|-----------------------|----------------|-------------------------|----------------------|--------------------|----------|
|                       | As Welded      |                         |                      |                    | 43 HRc   |
|                       | As Welded      |                         |                      |                    | 2400 HV  |

**REDRYING** Not required

Ni-matrix: ± 480-520 HV, WSC (carbides) ± 2350 HV

**GAS ACC.** EN ISO 14175



# CEWELD E DUR RU (Ni)

E DUR RU (Ni) 4,0 X 350MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| Can       | 2,5     | 8720663402783 |

E DUR RU (Ni) 5,0 X 350MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| Can       | 2,5     | 8720663402790 |