



# CEWELD E DUR RU (Ni)

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

**APPLICATIONS** The main applications are Hardfacing and rebuilding of stabilizers and other oilfield tools where maximum protection is required. Also for augers, impellers, mixer plates in the brick and clay industry and on decanter screws in the food and chemical industry where corrosion resistance is needed. CEWELD E DUR RU (Ni) can be applied on all sorts of steels except on cast iron or Mn-steel. This alloy is the most wear resistant type in most Hardfacing applications. In case of very fine dust abrasion It might happen that the matrix will be washed out and loses the imbedded Tungsten carbides, in this case another Hardfacing product should be considered..

**PROPRIÉTÉS** E DUR RU(Ni) is a coated flux-cored tube for electric welding, a newly designed hard-surfacing product consisting of crushed tungsten carbide and a Ni-based alloy. Crushed cast carbide will guaranty a long life. Furthermore the Ni-based alloy provides an excellent corrosion resistance. E DUR RU (Ni) has excellent welding and wetting characteristics at very low currents. It is easy to use and inexperienced welders will have no difficulties to produce smooth deposits mainly without cracks. Multi-layer deposits are possible and worn parts can be rebuild without removing the old material. E DUR RU (Ni) can be applied on all sorts of steels except on cast iron or Mn-steel.

**CLASSIFICATION** EN ISO 14700: E Ni20

**CONVIENT POUR** Scratchers, Mixers, Deep drilling, Bentonit mixers, Cement mixers, Stabilisers, Impellers, Augers etc.

**AGRÉMENTS**

**POSITIONS DE SOUDAGE**



| ANALYSE CHIMIQUE<br>TYPIQUE DU MÉTAL DE<br>SOUDURE (%) | WSC |
|--------------------------------------------------------|-----|
|                                                        | 65  |

| PROPRIÉTÉS MÉCANIQUES | Heat<br>Treatment | R <sub>P0.2</sub><br>(MPa) | R <sub>m</sub><br>(MPa) | A5<br>(%) | Hardness |
|-----------------------|-------------------|----------------------------|-------------------------|-----------|----------|
|                       | As Welded         |                            |                         |           | 43 HRc   |
|                       | As Welded         |                            |                         |           | 2400 HV  |

**ETUVAGE** 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 |