

# CEWELD OA WC2 Ni

**TYPE** Fluxcored hardfacing welding wire with Nickel-Boron-Silicon matrix and 45-55% Tungsten carbides (FTC)

**APPLICATIONS** This Ni-based alloy provides an excellent corrosion resistance combined with extreme abrasion resistance. OA WC2 (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.

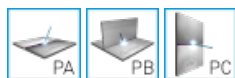
**PROPERTIES** 2360 HV nickel based corrosion resistant hardfacing alloy containing 45-55% tungsten carbides. OA WC2 (Ni) has excellent flow and wetting characteristics. Multi-layer deposits are possible and worn parts can be rebuild without removing the old material. Fused Tungsten Carbides will guaranty a long life for several wear applications. Best to be used with shielding gas M21 ( 80%Ar/20%Co2) 12 - 18 litres per minute.

**CLASSIFICATION** EN ISO 14700: T Ni20  
DIN 8555: MF 21-GF-55-CGTZ

**SUITABLE FOR** Rebuilding of stabilisers 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 or hardfacing deep drilling equipment.

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)**

C	Si	Ni	Cr	B	WSC
0.4	2.5	Rem.	2.7	1.7	48

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>P0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
As Welded				2360 HV

**REDRYING** 140°C / 24 hr

**HARDNESS / COMPOSITION** Matrix: 50-54 HRc Carbides: ~2360 HV0.1

**GAS ACC. EN ISO 14175** M20



# CEWELD OA WC2 Ni

OA WC2 NI 1,2MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663403865
OA WC2 NI 1,6MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663403889
OA WC2 NI 2,4MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663403902