CEWELD®

OA WC2 Ni

CATEGORY	FCAW Flux-Cored						
TYPE	Nickel based flux cored wire for hardfacing containing a high amount of tungsten carbides.						
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 looses the imbedded Tungsten carbides, in this case another hardfacing product should be considdered.						
PROPERTIES	2400 HV nickel based corrosion resistant hardfacing alloy containing 60% tunsten 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. Crushed cast carbide will guaranty a long life for several wear applications. Best to be used with shielding gas M13 (Argon with 1% Oxygen) approx. 15 litres per minute.						
CLASSIFICATION	AWS A 5.21: EN ISO 14700: T Ni 20 DIN 8555: MF-21-65-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	CE approved						

WELD METAL ANALYSIS %

WELDING POSITIONS:

WC2	Ni-Cr-B-Si
62	bal

PA PB FC XXXX

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	Impact Energy (J) ISO-V		Hardness	
Treatment	(N/mm ²)	(N/mm ²)	(%)	-20°C	-40°C	matrix HRc	Carbides HV
AW						55	2400

AW: as welded

WELDING PARAMETERS / PACKING

	Welding Parameter	S	Packing		
D (mm)	Voltage (V)	Current (A)	spooling type	kg / spools / drums	
1.2	18-21	150-190	K-300 / Drum	15 / 250	
1.6	20-22	160-200	K-300 / Drum	15 / 250	
2.4	22-24	180-220	K-300 / Drum	15 / 250	

REDRYING TEMPERATURE 150°C / 24hr (normaly not required)