



CEWELD DUR R (Ni)

TYPE	Flexible extruded acetylene-oxygen rod consisting of spherical tungsten carbide castings and a nickel-based alloy.															
APPLICATIONS	CEWELD®DUR R (Ni) offers the highest available wear resistance of all hardfacing alloys in most applications. The deposit offers excellent corrosion resistance combined with tungsten carbides for long life span in extreme applications. 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® DUR R (Ni) is a newly developed product for hardfacing. It is an extruded acetylene-oxygen rod consisting of spherical tungsten carbide castings and a nickel-based alloy. Crushed cast carbide guarantees a long service life. In addition, the nickel-based alloy offers excellent corrosion resistance. CEWELD® DUR R (Ni) has excellent flow and wetting properties. It is easy to use, so even inexperienced welders can easily achieve smooth deposits without cracks. Multi-layer deposits are possible and worn parts can be restored without removing the old material. The surface should be free of grease, oil, rust, and other foreign matter. Use a larger tip than is generally recommended for mild steel of the same diameter. Also, use a slightly excessive acetylene spring. The deposit is not machinable or forgeable. Only grinding with diamond tools is possible. CEWELD® DUR R (Ni) is available as a 500 mm long flexible rod or endless on coils. Matrix: ~43 HRc Special carbides (SC): ~3000 HV0.1															
CLASSIFICATION	EN ISO 14700: T Ni20															
SUITABLE FOR	Scratchers, Mixers, Deep drilling, Bentonit mixers, Cement mixers, Stabilisers, Impellers, Augers etc.															
APPROVALS																
WELDING POSITIONS																
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="0" style="width: 100%;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right;">WSC</td> </tr> <tr> <td></td> <td style="text-align: right;">65</td> </tr> </table>		WSC		65											
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MECHANICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Heat Treatment</th> <th style="width: 15%;">R_{p0,2} (MPa)</th> <th style="width: 15%;">R_m (MPa)</th> <th style="width: 15%;">A5 (%)</th> <th style="width: 25%;">Hardness</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td></td> <td></td> <td></td> <td>45 HRc</td> </tr> <tr> <td>As Welded</td> <td></td> <td></td> <td></td> <td>3000 HV</td> </tr> </tbody> </table>	Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A5 (%)	Hardness	As Welded				45 HRc	As Welded				3000 HV
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As Welded				45 HRc												
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REDRYING	Not required															
HARDNESS	Ni-matrix: ± 480-520 HV, WSC (carbides) ± 2350 HV															
GAS ACC. EN ISO 14175	R1															