

Standards

DIN 8555	E 6- UM - 60 GP
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Approvals ---

Characteristics CARBODUR 650 is an AC-weldable universal hard surfacing electrode with 120 % recovery for rebuilding of machine parts subject to combined wear from abrasion and impact. Suitable for deposits on mild steel, steel castings and manganese steel.
The pure weld deposit is only machinable by grinding.
The electrode has a soft but intensive welding character, a fine-structured seam surface and excellent slag-removal properties.
On high-carbon and crack-sensitive base materials, should be preheated to 200° – 300° C, depending on their composition and thickness. On highly crack-sensitive base materials and manganese steel, a buffer layer of CARBO 4370 MPR or CARBODUR MnCr is recommended.

Typical applications Rollers, dredger chains, conveyors, hammers, dredger equipment, mining and earth-moving equipment

Operating temperature

Welding instructions Guide electrode almost vertically with a short arc.

Hardness and recommendations for heat treatment	HRc as welded	Annealing: 5 h	Hardening oil - air
	ca. 59	780°C – 820° C	1000°C – 1050° C

Weld metal analysis (typical. wt %)	C	Si	Mn	Cr
	0,45	1,75	0,4	9

Current = + / ~ 50 V

Welding positions PA. PB. PC. PD. PE

Rebaking 1 h. 350 °C + (if required)

Flux-cored wire equivalent

CARBO F- 600

Dia./Length	Amperage (A)	Pcs./ packet	Pcs./ carton	kg / 1000	kg / packet	kg / carton
2,5 x 350	80 – 100	167	667	30,0	5,0	20,0
3,2 x 350	110 - 160	99	394	50,7	5,0	20,0
4,0 x 450	150 - 200	61	243	98,8	6,0	24,0
5,0 x 450	160 - 240	39	156	154,3	6,0	24,0

Rev. 000

Statements on composition and application are just for the applier's information. Statements on mechanical properties always refer to the all-weld-metal according to valid standards. Carbo-Weld may change the characteristics of its products without notice. We recommend the applier to check our products for their special application autonomously.