

CARBODUR 600 B

Standards	DIN 8555	E 6- UM - 60 GP
	DIN EN 14700	E Z Fe6

Characteristics

CARBODUR 600 B is a basic coated high efficiency electrode with 130 % recovery for hardfacing by applying tough-hard and abrasion-proof layers Suitable for hardfacing on machine components made of engineering steel, cast steel and manganese steel.

Smooth, intense fusion, fine-scaled seam, and easy slag removal.

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.

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Welding instructions

Guide electrode almost vertically with a short arc

Highly carburized or crack-sensitive base materials should be preheated to 200° – 300° C. On highly crack-sensitive base materials and manganese steel, a buffer layer of CARBO 4370 MPR or CARBODUR MnCr is recommended.

Typical applications

Rollers, caterpillar tracks, track wheels, running surfaces, chaser mills, cams, paving breakers, baffles, dredger parts, rolling crushers, etc.

Operating temperature

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	Cr	Mo	V
	0,6	9	0,5	1,4

Current = + / partly ~ / 42 V

Welding positions PA. PB. PC. PD. PE

Rebaking 1 h. 200 °C + (if required)

Flux-cored wire equivalent CARBO F- 601

Dia./Length	Amperage (A)	Pcs./ packet	Pcs./ carton	kg / 1000	kg / packet	kg / carton
2,5 x 350	50 - 80	227	909	22,0	5,0	20,0
3,2 x 450	70 - 110	126	503	47,7	6,0	24,0
4,0 x 450	100 - 150	83	332	72,3	6,0	24,0
5,0 x 450	140 - 190	53	213	112,9	6,0	24,0
6,0 x 450	170 - 230	37	148	162,6	6,0	24,0

Rev. 001/11

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.