

CARBO S 21

Standards DIN 8555 E 20-UM-300-CKTZ

Approvals ---

Characteristics AC-weldable hardfacing electrode with an alloyed core and a recovery of

160 %. The deposit is a cobalt base alloy of high tenacity as well as ex-

treme corrosion- and heat resistance.

The weld metal is highly resistant to impact and is work-hardening up to

45 HRC.

Working temperature should be kept between 400° and 600°C, depending on base material and type of construction. Slow cooling, if necessary

oven cooling, is recommended for low alloyed and austenitic steels.

Subsequent heat treatment (stress relief at 700°C approx.) is not necessary, except on large structures.

Operating temperature From room temperature up to + 300° C

Typical applications Due to its above-mentioned characteristics CARBO S 21 is particularly

recommended for use on all work pieces which are subject to corrosion,

impact wear as well as high temperatures or thermal shocks.

Hardness of all-weld

metal

(typical values)

At Rt.	+ 300°C	work hardened HRC	Melting-	Density
HRC	HB		point	g/cm³
ca. 30	ca. 280	ca. 45	1250°C	8,3

Weld metal analysis

(typical, wt. %)

С	Si	Mn	Cr	Мо	Ni	Co	Fe
0,3	0,9	1	28	5,5	3	Base	3

Current = $+/\sim 42 \text{ V}$

Welding positions PA, PB, PC

Rebaking 1 h, $350 + / - 10 \,^{\circ}\text{C}$ (if required)

Flux-cored wire equivalent

CARBO F-S 21

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
2,5 x 350	50 - 60	145	580	34,5	5,0	20,0
3,2 x 350	90 - 130	84	336	59,5	5,0	20,0
4,0 x 350	120 - 170	62	247	81,0	5,0	20,0
5,0 x 350	150 - 200	38	152	131,2	5,0	20,0

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