

CARBO TS 21

Standards DIN 8555 W / SG 20--300-CKTZ

Approvals ---

Characteristics CARBO TS 21 is a bare rod for the TIG welding process.

The deposit is a cobalt base alloy of high tenacity as well as extreme cor-

rosion- 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 neces-

sary, except on large structures.

Operating temperature From room temperature up to + 300° C

Typical applications Due to its above-mentioned characteristics CARBO SK 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	Melting-	Density
HRC	HB	HRC	point	g/cm³
ca. 30	ca. 280	ca. 280	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 =

Welding positions PA, PB, PC, PD, PE, PF

Gas types EN 439 I 1: Argon

Flux-cored wire equivalent

CARBO F- S 21

Dia./Length	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
2,5 x 350	333	1333	15,0	5,0	20,0
3,2 x 350	200	800	25,0	5,0	20,0
4,0 x 350	147	588	34,0	5,0	20,0
5,0 x 350	91	363	78,7	5,0	20,0

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.

