

## CARBO F-S 21

Standards DIN 8555 MF 20-MF-350-CKTZ

Characteristics The deposit of CARBO F- 21 gives a Cobalt-base alloy of high

tenacity as well as extreme corrosion- and heat resistance.

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

up to 45 HRC.

Welding 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.

**Typical applications** Due to its above-mentioned characteristics CARBO F-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.

Working temperature From room temperature up to + 300° C

Hardness of all-weld metal

(typical values)

At Rt. HRC	+ 300°C HB	work hardened HRC	Melting- point	Density 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

Gas types EN 439

M13: 99% Argon with 1% Oxygen

Current = +

**Current intensity** 

DIA (mm)	DIA (inch)	Volt	Amps	Delivering form
1,2	3/64	19 - 22	120 - 220	G
1,6	1/16	20 - 26	160 - 260	G
2,0	5/64	22 - 27	220 - 280	G
2,4	3/32	24 - 28	260 - 340	G
2,8	7/64	25 - 29	300 - 400	S

**Delivering form** 

O = Flux cored wire self shielding

G = Flux cored wire for shielded arc welding

**S** = Flux cored wire for submerged arc welding

Coils, weight

B/BS 300 = 15 kg

B 450 = 30 kg

pay off pack = 150 / 300 kg

Colls, weigi

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.