

## CARBO TS 1

International standards	AWS A	5.13		E CoCr	-C		1			
	DIN 855	55	\	WS/G	20-UM-5	5-CTZ	]			
Approvals										
Characteristics	CARBO TS 1 is a bare cobalt base rod for TIC-welding. The deposit is a cobalt base alloy of austenitic-ledeburitic structure with embedded CrW carbides. It is the hardest of the standard Cobalt base alloys. The weld metal is highly resistant to corrosion, impact, abrasive wear as well as thermal shocks and heavy mechanical impact. The deposits are only machinable by grinding									
Welding instructions	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 + 1000° C									
Typical applications	Wear pads, rotary seal rings, pump sleeves, centre less grinder work rests									
Mechanical properties of all-weld metal	At R	t. +	· 600°C HRc	+ 800°C HRc		Melting- range °C		Densit a/cm³	У	
( typical values )	ca. 5	5	ca.44 ca. 34		. 34	1250-1290		8,7		
Weld metal analysis	С	Si	Mn	Cr	W	Fe	Со	Others		
(typical, wt. %)	2,2	1,2	1	30	12,5	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 1									
Dia./Length Pcs./packet Pcs./carton kg/1000 kg/packet kg/carton										

Dia./Length	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
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	55,1	5,0	20,0

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