

Flux cored wire, low-alloyed, rutile

E71T-1H8

# ClassificationsEN ISO 17632-AEN ISO 17632-BAWS A5.20

T 42 2 P C 1 H10

T493T1-1CA-H10

### Characteristics and typical fields of application

Union TG 50 C is a rutile flux cored wire with fast solidifying slag for GMAW in all positions with shielding gas C1 acc. to EN ISO 14175. The fast solidifying slag and the soft arc allow excellent properties in position welding with increased welding current. The wire furthermore disposes of a very low spatter affinity, a wide and deep penetration and a fine bead appearance with a good slag detachability. The welding of root passes in all positions with ceramic backing strips is proven.

#### Base materials

S185, S235J2G3, S275JR, S355J2G3, E295, P235GH, P265GH, P295GH, P355GH (HI, HII, 17 Mn 4, 19 Mn 6), P275N, P355N, P355NL2, P460N, S275N, S275NL, S355N, S355NL, S460N, L210, L240, L290, L360, L290NB, L360MB, L415MB, X42 – X65, GS-38 – GS-52, Shipbuilding steels grade A – E, AH 32 – EH 36, A40 – F40

Typical analysis of all-weld metal (wt%)								
	С	Si	Mn	Р	S	Gas		
wt-%	0.06	0.5	1.2	≤ 0.025	≤ 0.025	C1		
Machanical momenties of all world motel								

## Mechanical properties of all-weld metal

Heat- treatment	Shielding gas	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J	
		MPa	MPa	%	+20 °C	−20 °C
aw	C1	420	520	24	110	47

aw = untreated, as welded

**Operating data** 

	<b>Polarity:</b> DC ( + ) DC ( - )	Shielding gas: (EN ISO 14175) C1 Consumption: 15 – 20 l/min	ø (mm) 1.2	<b>Spool</b> B300	<b>Amps A</b> 130 – 300	<b>Voltage V</b> 23 – 32
Approvale						

#### Approvals

TÜV (10870), DB (42.132.39) GL, LR, CE