

BÖHLER Kb 52 T-FD



Flux-cored wire, seamless, mild steel, basic type

Classifications

EN ISO 17632-A

T 46 4 B M21 3 H5

T 42 4 B C1 3 H5

AWS A5.36 / SFA-5.36

E70T5-M21A4-CS1-H4

E70T5-C1A4-CS1-H4

Characteristics and typical fields of application

Seamless basic flux-cored wire for single or multilayer welding of carbon, carbon-manganese steels and similar steels, including fine grain steels with Argon-CO₂ shielding gas or pure CO₂. Main features: excellent weldability in flat and horizontal position, smooth and bright bead, very low spatter losses, easy to remove slag and exceptional mechanical properties even at low temperatures. This wire is especially suitable for welding components of different material or as buffer layer for hardfacing applications.

Base materials

S235JR-S355JR, S235JO-S355JO, S450JO, S235J2-S355J2, S275N-S460N, S275M-S460M, P235GH- P355GH, P275NL1-P460NL1, P215NL, P265NL, P355N, P285NH-P460NH, P195TR1-P265TR1, P195TR2- P265TR2, P195GH-P265GH, L245NB-L415NB, L450QB, L245MB-L450MB, GE200-GE240

Ship building steels: A, B, D, E, A 32-E 36

ASTM A 106 Gr. A, B, C; A 181 Gr. 60, 70; A 283 Gr. A, C; A 285 Gr. A, B, C; A 350 Gr. LF1; A 414 Gr. A, B, C, D, E, F, G; A 501 Gr. B; A 513 Gr. 1018; A 516 Gr. 55, 60, 65, 70; A 573 Gr. 58, 65, 70; A 588 Gr. A, B; A 633 Gr. C, E; A 662 Gr. B; A 711 Gr. 1013; A 841 Gr. A; API 5 L Gr. B, X42, X52, X56, X60, X65

Typical analysis of the wire

	Gas	C	Si	Mn
wt.-%	M21	0.07	0.55	1.4
wt.-%	C1	0.06	0.50	1.2

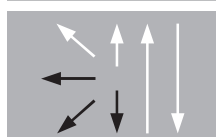
Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R _e MPa	Tensile strength R _m MPa	Elongation A (L ₀ =5d ₀) %	Impact values ISO-V KV J		
				20°C	-40°C	-60°C
u	500 (≥ 460)	610 (550–660)	28 (≥ 20)	160 (≥ 47)	100 (≥ 47)	80
u1	430 (≥ 420)	510 (500–640)	29 (≥ 20)	140	80 (≥ 47)	

u untreated, as welded – shielding gas M21

u1 untreated, as welded – shielding gas C1

Operating data



Polarity

DC+

Shielding gas (EN ISO 14175)

M21 – M35, C1

Dimension mm

1.2

1.4

1.6

2.4

Welding with conventional or pulsed power sources using DC+

Approvals

TÜV, DB, DNV GL, ABS, LR, BV, RINA, CE