

## CARBO CEL 70

International standards

EN ISO 2560-A E38 3 C 21 AWS A 5.1 E6010

Approvals TÜV, DB, CE

Typical applications and characteristics

Cellulose medium coated electrode for joining and repairing pipelines, especially in vertical down position. Due to it's high penetration, CARBO CEL 70 is particularly suitable for welding root layers and

built up passes in the vertical down direction.

Excellent weldability also on soiled surfaces containing impurities from

corrosion, paint residues, priming coats, etc. High efficiency as compared to vertical up welding.

Application fields Shipbuilding, storage vessels, boilers, pipeline constructions

Operating temperature From -30° C up to +350° C

Base materials S235JR, S275JR, S235J2G3, S275J2G3, S355J2G3, P235GH,

P265GH, S235JRS1 - S235J2S2

L210 - L360NB, L290MB - L360MB, P355T1, P235T2 - P355T2,

P235G1TH, P255G1TH, X42-X52. Root pass L555NB, L555MB.

Mechanical properties of all-weld metal

(typical values)

Tensile Strength R <sub>m</sub> N/mm² Yield strength R <sub>eL</sub> N/mm²		Elongation A₅ %	Impact strength ISO – V J -30°C	
min. 380	470 - 540	min. 22	min. 47 J	

Weld metal analysis (typical, wt. %)

С	Si	Mn	
0,12	0,2	0,6	

**Current** Fill: = + for root pass welding = -

Welding positions PA, PB, PC, PF, PG

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/packet	Kg/carton
2,5 x 350	40 - 80	530	1060	16,2	8,5	17,0
3,2 x 350	60 – 110	330	660	26,5	9,0	18,0
4,0 x 350	90 – 140	230	460	40,1	9,5	19,0
5.0 x 350	120 – 180	160	320	60.8	10.0	20.0

Rev. 001