

CEWELD FL 165

TYPE Medium basic SAW flux for Single and multi-wire in layer/counter layer or multiple layers.

APPLICATIONS CEWELD® FL 165 is a medium base powder for joint welding of low alloy structural steels, fine grained structural steels, boiler steels and especially all pipe and marine steels. Excellent

weldability with single and multiple wires (up to 5 wires), in layer/counter-layer or multi-layer passes. Also in combination with cored wire and solid wire.

Typical applications:

Shipbuilding, spiral and longitudinal tube production of structural pipe steels from L360 or X52 to L555 or X80 according to ISO3183 / API-5L. Unalloyed and low-alloyed structural steels according to EN 10025; fine-grained structural steels up to 700 MPa yield strength while maintaining material-specific properties; boiler structural steels such as 16Mo3 and 13CrMo4-5.

PROPERTIES CEWELD® FL 165 has a very low hydrogen content of less than 5 ml/100 g in the weld metal, an

oxygen content of around 350 ppm and a low nitrogen content of less than 70 ppm. This, together with the constant metallurgical flux behaviour, is the decisive reason for the consistently good mechanical quality values with high toughness values at low temperatures. Also suitable for sour

gas requirements due to low hardness values (max. 240 HV10).

Boniszewski: ~1,7

Powder bulk density: 0.95 kg / dm3 (l)

Grain size according to ISO 14174: 2 - 20 (Tyler 8 x 65)

Current carrying capacity: up to 1000 A AC or DC with single wire

CLASSIFICATION EN ISO 14174: SA FB 1 65 AC H5

SUITABLE FOR S355, S420, S460, S690, P500, P550, X65, X70, X80, Weldox 700, Naxtra 70, Hardox 400, Dilimax,

P91, P24

A, B, D, E, A 32-E 36

APPROVALS

WELDING POSITIONS







TYPICAL CHEMICAL
ANALYSIS OF WELD METAL
(%)

| CaF2 | CaO+MgO | Si02+Ti02 | Al203+Mn0 |
|------|---------|-----------|-----------|
| 17 | 30 | 20 | 30 |

MECHANICAL PROPERTIES

REDRYING 300°C / 2 hr

GAS ACC. EN ISO 14175